# **TA-AV590**

# **SERVICE MANUAL**

AEP Mode UK Mode E Mode Chinese Mode

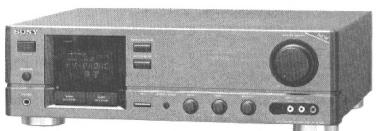


Photo: GRAY

#### **SPECIFICATIONS**

# **Amplifier section**

Items	Condition	Data
Continuous RMS power output	4 ohms, DIN 1 kHz	Front: 70 W + 70 W Center: 70 W Rear: 30 W + 30 W
	4 ohms, 20 Hz-20 kHz	Front: 55 W + 55 W
Total harmonic distortion	8 ohms, at 10 W output	Front: 0.03 %

# Input

	Input jack	Sensitivity	Impedance
Audio	PHONO	2 mV	
	TUNER, AUX, TAPE VIDEO 1, 2, 3, 4, LD	150 mV	50 kilohms
	CD	200 mV	15 kilohms
0	VIDEO 1, 2, 3, 4, LD (phono jack)	1 Vp-p	75 ohms
Video	S VIDEO VIDEO 1, 4, LD	Luminance (Y) 1 Vp-p Chrominance (C) 0.286 Vp-p	75 ohms

## Output

	Output jack	Sensitivity	Impedance
	TAPE, VIDEO 1, 2	150 mV	470 ohms
Audio	PHONES	3 mW (8 ohms)	Applied to lov and high impedance headphones
	FRONT/CENTER/ MONO OUT	1.5 V	2 kilohms
Video	VIDEO 1, 2, MONITOR (phono jack)	1 Vp-p	75 ohms
Vic	S VIDEO VIDEO 1, MONITOR	Luminance (Y) 1 Vp-p Chrominance (C) 0.286 Vp-p	75 ohms

Tone control

Surround

BASS: 100 Hz, ±10 dB TREBLE: 10 kHz, ±10 dB Center/rear output level: +10 dB - -15 dB Delay time: 20 ms fixed Input balance: Auto

- Continued on page 2



INTEGRATED AV AMPLIFIEI

#### General

Power requirements

AEP, German, Chinese, Singapore model:

220-230V AC, 50/60Hz

UK model : 230V AC, 50/60Hz

E model:

120, 220 or 240 V AC adjustable, 50/60Hz

280 W

Power consumption AC outlet (except for UK model)

AC odder (except for OK mode

One Switched, less than 100 W Approx. 430 x 135 x 360 mm

(w/h/d)

(17 x 5 <sup>3</sup>/<sub>8</sub> x 14 <sup>1</sup>/<sub>4</sub> inches) Approx. 10 kg (22 lb 1 oz)

Mass Supplied accessories

Dimensions

Approx. 10 kg (22 lb 1 oz) Remote commander RM-P590 (1)

Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice.

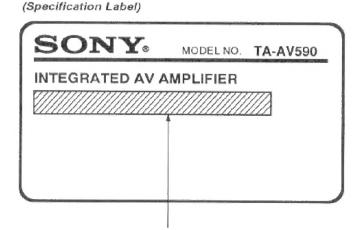
## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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# MODEL IDENTIFICATION



UK model : AC 230V~50/60Hz

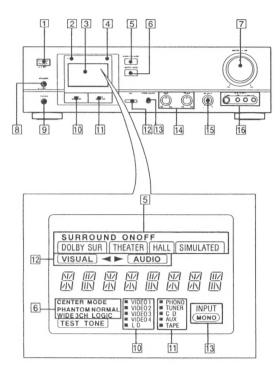
AEP, German, Chinese,

Singapore model : AC 220 - 230V~50/60Hz E model : AC 120, 220, 240V~50/60Hz

# SECTION 1 GENERAL

This section is extracted from instruction manual.

A



# Identifying the Parts and Controls

# Front Panel and Display A

- 1 SYSTEM POWER switch Press to turn on/off the unit.
- [2] STANDBY indicator
  When this indicator lights up, you can turn on this unit with the remote
- 3 Display
- 4 Remote sensor
- S SURROUND MODE button (Page 48)
  Press to change the surround mode.
  Each time this button is pressed, the surround mode changes as follows:



(Page 48)
In the DOLBY SUR or THEATER mode, select the CENTER MODE according to the speaker placement.
Each time this button is pressed, the CENTER MODE changes as follows:

PHANTOM • NORMAL

3 CH LOGIC • WIDE

- [7] MASTER VOLUME control (Page 34)
  Adjusts the sound volume. To increase
  the volume, turn the control clockwise.
  To decrease the volume, turn the control
  counterclockwise.
  Adjusts the level of the sound output
  from the FRONT SPEAKERS, REAR
  SPEAKERS and CENTER SPEAKER
  terminals and the FRONT/CENTER/
  MONO OUT and PHONES jacks at the
  same time.
- B SPEAKERS switch (Page 36)
  Turn ON and OFF the sounds output
  from the FRONT SPEAKERS, REAR
  SPEAKERS and CENTER SPEAKER
  terminals and the FRONT/CENTER/
  MONO OUT jacks.
- PHONES jack
   Accepts the stereo phone plug of headphones. The jack outputs the sound of front speakers only. To listen to the program source only with the headphones, set the SPEAKERS switch to OFF.

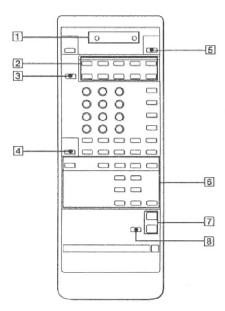
- VIDEO SELECTOR button
  Selects the video program source.
- 11 AUDIO SELECTOR button Selects the audio program source.
- T2 MIX button (Page 38)

  Press to combine a visual source and an audio source.

  Each time this button is pressed, the display changes as follows:

  VISUAL → AUDIO → off
- STEREO/MONO switch (Page 16)
  When using the monaural equipment,
  connect to either L or R jack of the
  amplifier and set STEREO/MONO
  switch to MONO.
  Same monaural signals are input on
  both L and R jacks and the monaural
  signal is also output from the FRONT
  OUT jacks.
- 14 BASS/TREBLE controls (Page 34) Adjust the BASS and TREBLE sound. Normally, set to the center position.
- 15 BALANCE control (Page 34)
  Adjusts balance of the front speaker sound. Normally set to the center position.
- 16 VIDEO 4 INPUT jacks (Page 16)
  Use when connecting the video camera, etc.

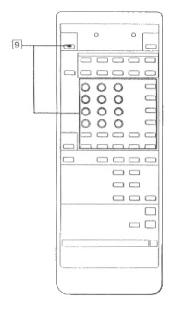
24



# Identifying the Parts and Controls

### Remote Commander 🖪

- LEARN button and indicator
   Stores functions of other remote commanders emitting infrared rays.
- 2 SYSTEM CONTROL/FUNCTION buttons (Page 52, 58) TAPE/AUX/CD/TUNER/PHONO/ VIDEO 1/VIDEO 2/VIDEO 3/VIDEO 4/LD: Selects the each program source.
- [3] MIX button (page 38) Combines a visual source and audio source.
- 4 BACKGROUND button (Page 56)
  Operate other components temporarily while listening to or watching a programme.
- System off button (page 54)
  Turns off this unit and the components connected to the SWITCHED AC OUTLET.
  When the unit is turned off by pressing this button, the STANDBY indicator lights up to show that the unit is in the STANDBY mode.
- 6 Surround buttons
  SURROUND ON/OFF; Turns on/off
  the surround mode.
  DOLBY SURROUND, THEATER,
  HALL, SIMULATED: Select the each
  surround mode.
  EFFECT: Adjust the overall presence of
  the sound field.
  TEST TONE: Generates a test tone
  signal that is sent in succession to
  each speaker.
  CENTER LEVEL +/-: Adjust the
  volume of center speaker.
  REAR LEVEL +/-: Adjust the volume of
  rear speakers.
- MASTER VOL +/- buttons
  Adjust the level of the sound output
  from the FRONT SPEAKERS, REAR
  SPEAKERS and CENTER SPEAKER
  terminals and the FRONT/CENTER/
  MONO OUT and PHONES jacks at the
- 8 MUTING button Mutes the sound.



# Identifying the Parts and Controls

9 Operation buttons
The each function of the operation
button changes according as what
component is being selected with the
SYSTEM CONTROL/FUNCTION
buttons.

Button	Operates	Function
0-9	Tuner	Selects preset numbers.
	CD player/ MD deck LD player	Selects track numbers. 0 selects track 10.
	TV/VCR	Selects channel numbers.
>10	CD player/ Tape deck/ LD player/ MD deck	Selects track numbers over 10.
CH/ PRESET +/-	Tuner	Scans and selects preset stations.
+1-	TV/VCR	Selects preset channels.
D. SKIP	CD player	Skips discs (CD player with multi- disc changer only.)
44/>>	CD player	Searches tracks (forward or backward).
	Tape deck/ MD deck/ VCR/LD player	Fastforwards or rewinds or searches.
144/PPI	CD player/ MD deck/ LD player	Skips tracks.
	VCR	Searches index.
11	CD player/ Tape deck/ MD deck/ LD player/ VCR	Pauses play or record. (Also starts recording with components in record standby.)
<b>j=</b> -	CD player/ Tape deck/ MD deck/ LD player/ VCR	Starts play.
	CD player/ Tape deck/ MD deck/ LD player/ VCR	Stops play.

Starts play on the reverse side.

Sets tape decks to the record standby mode.

Tape duck/ Starts recording When pressed with (►or ← on tape deck).

Tape deck Tape deck/ MD deck

Button	Operates	Function
RMS DIRECTION	Tape deck	Selects tape direction (for tape decks with the RMS* function.)
rms Clear	Tape deck	Clears RMS* program (for tape decks with the RMS function.)
RMS/ START	Tape deck	Programs tracks (tope deck with the RMS" function only).
ENTER	TV/VCR	Changes channels when used with 0- 9.
TV/ VIDEO	TV/VCR	Selects input signal: TV input or video input.
VISUAL POWER	TV/VCR/ LD player	Turns on or off the power.
TV CONTROL ON	TV	Turns on the TV, switches the input to "TV," and sets the remote to operate the TV.
-/	TV	Selects the channel entry mode, either one or two digit.
SUB CH	TV	Selects preset channels for the small picture.**
POSI	TV	Changes the position of the small picture.**
SWAP	TV	Swaps the small and the large picture.**
PINP	TV	Activales the picture-in-picture function.**
JUMP	TV	Jumps back and forth between the previous and current channels.
ANT TV/ VTR	VCR	Selects output signal from the antenna terminal: TV signal or VCR program.

RMS: Random Music Sensor
 Only for Sony TVs with the picture-in-picture function

# SECTION 2 EXPLANATION OF IC TERMINALS

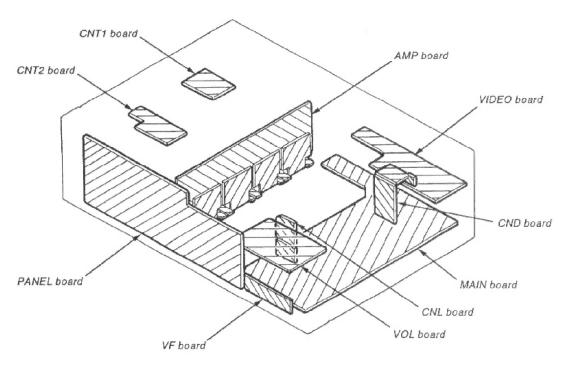
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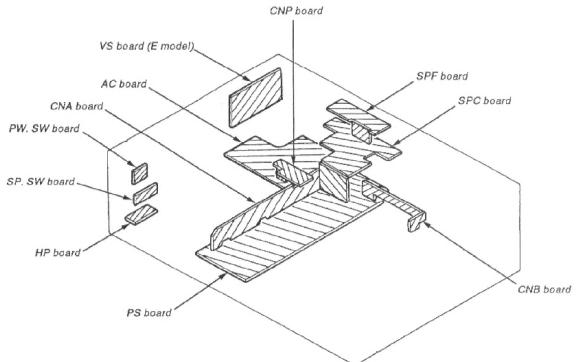
Pin No.	Pin name	I/O	Description	
1	RESET	I	System set input terminal.	
2	11G	0	Fluorescent indicator tube drive.	
3	10G	0	Fluorescent indicator tube drive.	
4	9G	0	Fluorescent indicator tube drive.	
5	8G	0	Fluorescent indicator tube drive.	
6	7G	0	Fluorescent indicator tube drive.	
7	6G	0	Fluorescent indicator tube drive.	
8	5G	0	Fluorescent indicator tube drive.	
9	4G	0	Fluorescent indicator tube drive.	
10	3G	0	Fluorescent indicator tube drive.	
11	2G	0	Fluorescent indicator tube drive.	
12	1G	0	Fluorescent indicator tube drive.	
13	NC	-	Not used. (OPEN)	
14	NC		Not used. (OPEN)	
15	NC	_	Not used. (OPEN)	
16	P12	0	Fluorescent indicator tube drive.	
17	P11	0	Fluorescent indicator tube drive.	
18	- 30	_	Fluorescent indicator tube drive - 30V power supply.	
19	- 4	_	Fluorescent indicator tube drive - 4V power supply.	
20	P10	0	Fluorescent indicator tube drive.	
21	P9	0	Fluorescent indicator tube drive.	
22	P8	0	Fluorescent indicator tube drive.	
23	P7	0	Fluorescent indicator tube drive.	
24	P6	0	Fluorescent indicator tube drive.	
25	P5	0	Fluorescent indicator tube drive.	
26	V <sub>DD</sub>	_	Power supply. (+5V)	
27	P4	0	Fluorescent indicator tube drive.	
28	P3	0	Fluorescent indicator tube drive.	
29	P2	0	Fluorescent indicator tube drive.	
30	P1	0	Fluorescent indicator tube drive.	
.31	STOP	I	Power break detection input terminal.	
32	FCK	0	Data transfer clock output to audio-video function switch.	
33	FDT	0	Serial data output to audio-video function switch.	
34	P-SW	I	Power SW ON/OFF detection.	
35	SIRCS	I	Remote control receive detection.	
36	KEY	I	Key matrix input terminal.	
37	PROTECT	I	Speaker output protection detection input.	
38	SWP	I	Power SW input detection.	
39	VA	0	Video function switch control terminal.	
40	VB	0	Video function switch control terminal.	

Pin No.	Pin name	I/O	Description	
41	VE	0	Video function switch control terminal.	
42	INH	0	Video 1 picture output loop cut control terminal.	
43	NC	-	Not used. (OPEN)	
44	RYS	0	Surround speaker output ON/OFF control.	
45	RYC	0	Center speaker output ON/OFF control.	
46	RYF	0	Front speaker output ON/OFF control.	
47	SCE	0	Data latch output to surround processor.	
48	SCK	0	Digital transfer clock output to surround processor.	
49	SDT	0	Serial data output to surround processor.	
50	MON	0	STEREO/MONO control terminal.	
51	NC	_	Not used. (OPEN)	
52	NC	_	Not used. (OPEN)	
53	FCE	0	Data latch output to audio-video function switch	
54	NC	-	Not used. (OPEN)	
55	NC	_	Not used. (OPEN)	
56	X1	I	Main system clock terminal. (4.19MHz)	
57	X2	1	Main system clock terminal. (4.19MHz)	
58	Vss	-	Power supply terminal. (GND)	
59	XT1	I	Subsystem clock terminal. (Not used)	
60	XT2	I	Subsystem clock terminal. (Not used)	
61	RY-P	0	Power ON/OFF relay drive terminal.	
62	MUT	0	Mute control terminal.	
63	VL -	0	Volume motor control terminal. (DOWN)	
64	VL+	0	Volume motor control terminal. (UP)	

# SECTION 3 DIAGRAMS

# 3-1. CIRCUIT BOARDS LOCATION





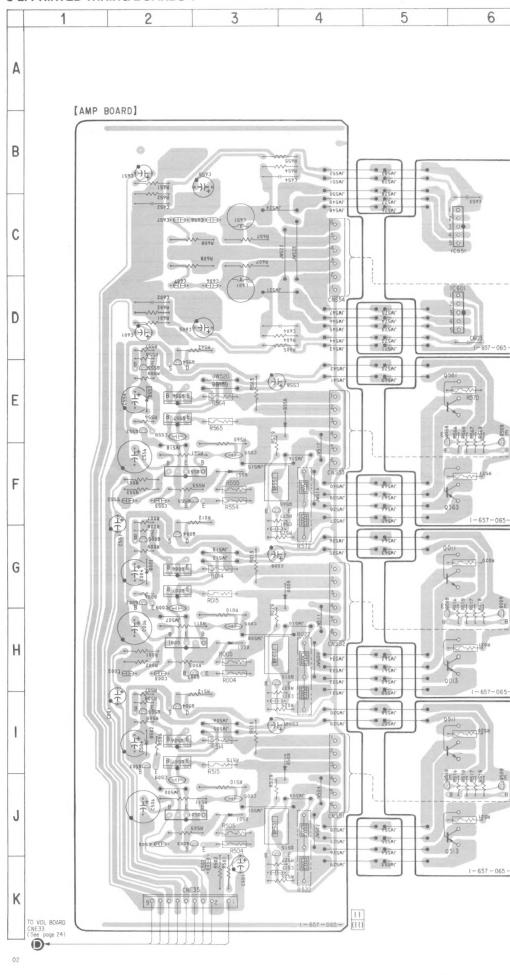
#### 3-2. PRINTED WIRING BOARDS-1

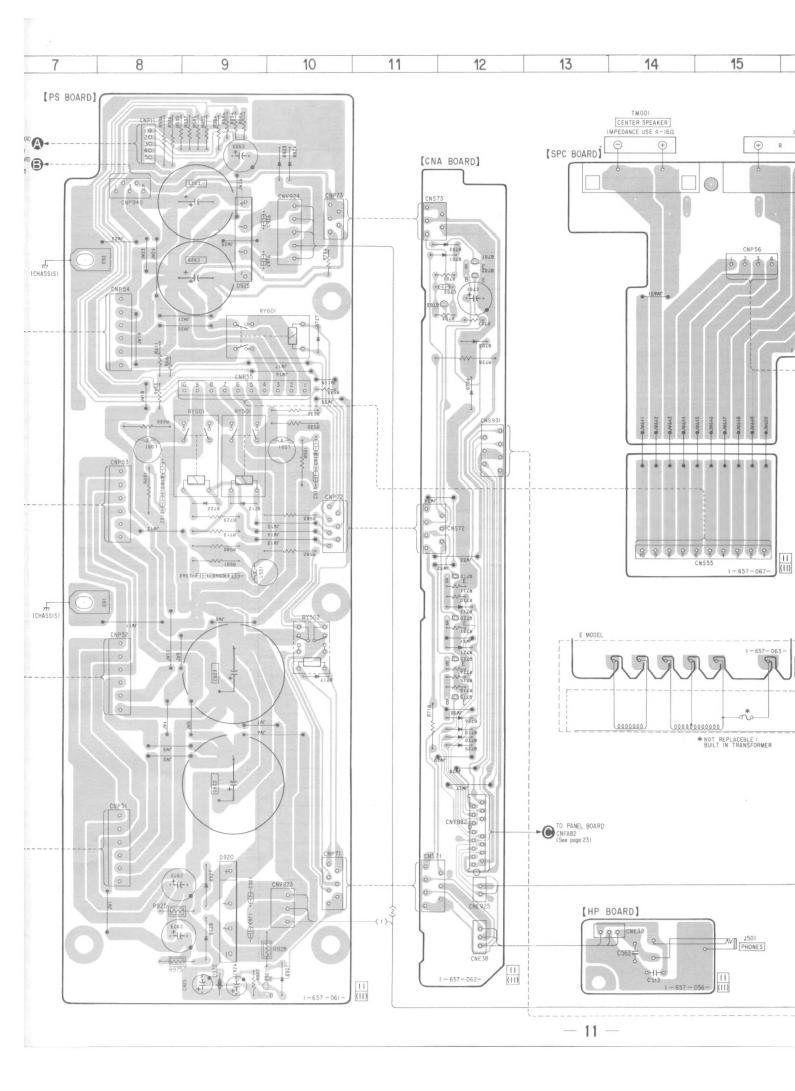
# SEMICONDUCTOR LOCATION

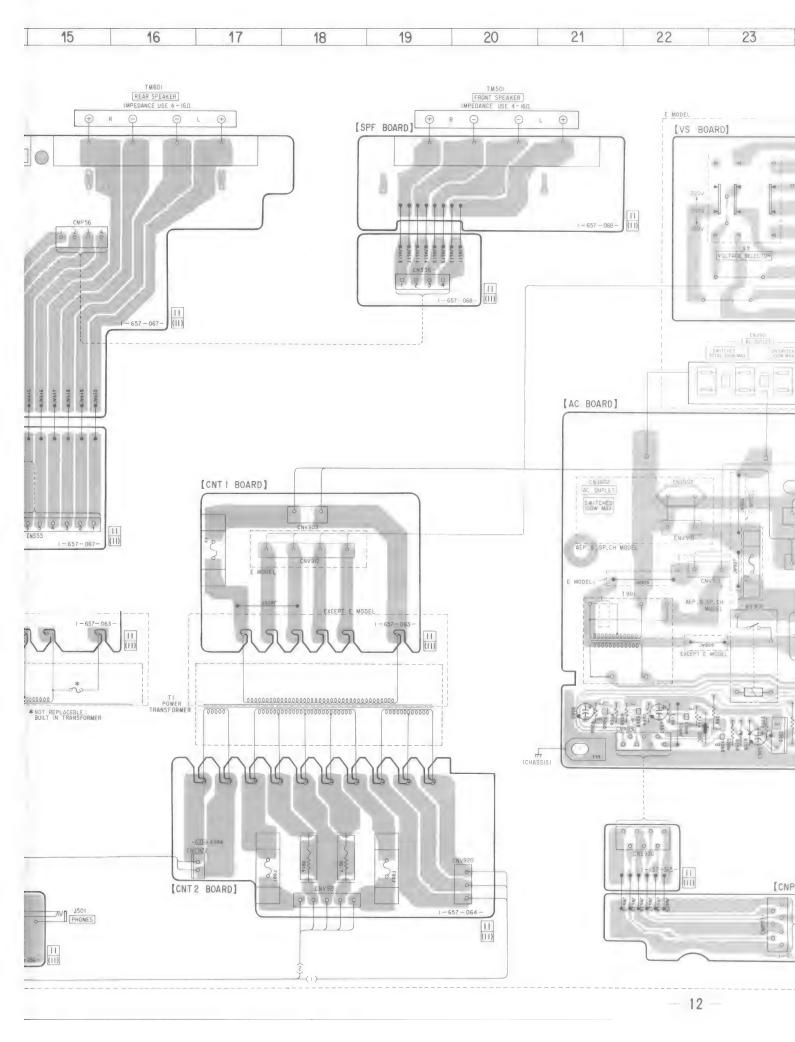
Ref. No.	Location	Ref. No.	Location
D001	H-3	Q006	G-2
D002	G-2	Q007	G-2
D008	G-4	Q008	H-5
D501	J-3	Q009	H-6
D502	I-2	Q011	G-5
D508	J-4	Q013	H-5
D551	F-3	Q015	H-3
D552	E-2	Q501	J-2
D558	E-4	Q502	I-2
D701	C-12	Q503	J-2
D702	C - 12	Q504	I-2
D703	D - 12	Q505	I-2
D704	D - 12	Q506	I-2
D710	H - 12	Q507	I-2
D711	G - 12	Q508	J-5
D712	F-9	Q509	J-6
D717	H-10	Q511	I-5
D720	I-12	Q513	J-5
D721	G-12	Q515	J-3
D722	F-9	Q551	F-2
D725	I - 12	Q552	E-2
D726	H - 12	Q553	F-2
D727	D - 10	Q554	E-2
D901	H - 24	Q555	E-2
D902	I - 24	Q556	E-2
D903	- 24	Q557	E-2
D904	- 25	Q558	E-5
D905	- 25	Q559	E-6
D906	- 25	Q561	E-6
D907	- 24	Q536	F-5
D908	I - 23	Q565	F-4
D909	I - 23	Q701	C-12
D910	I - 22	Q702	C-12
D920	J - 9	Q703	C-12
D921	K - 10	Q710	G-12
D922	K-9	Q715	H - 12
D923	B-10	Q720	G - 12
D924	B-10	Q725	H - 12
D925	C-9	Q901	H - 24
D927	J-9	Q902	J - 23
D929	K - 9	Q903 Q904	I - 22 I - 23
IC601 IC651	D-6 C-6	Q905 Q906 Q921	I-22 I-21 K-9
Q001 Q002 Q003 Q004 Q005	H-2 G-2 H-2 G-2 G-2		

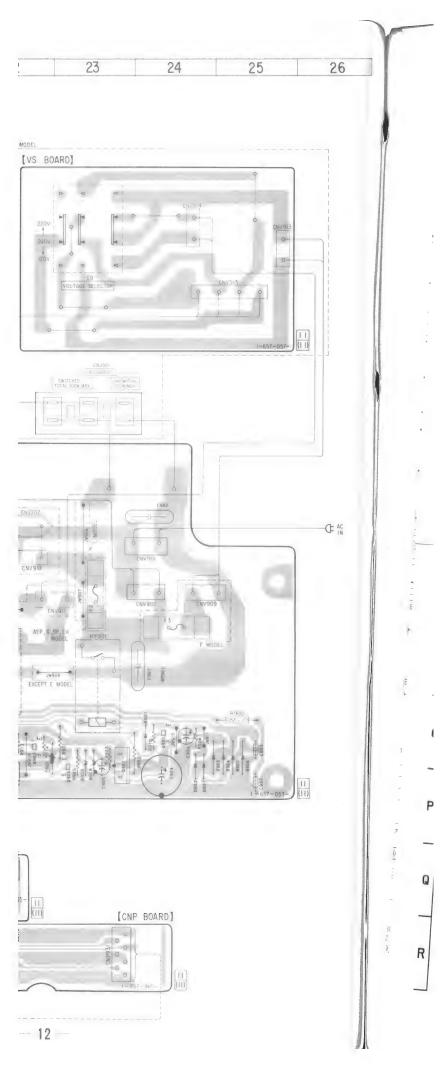
# Note:

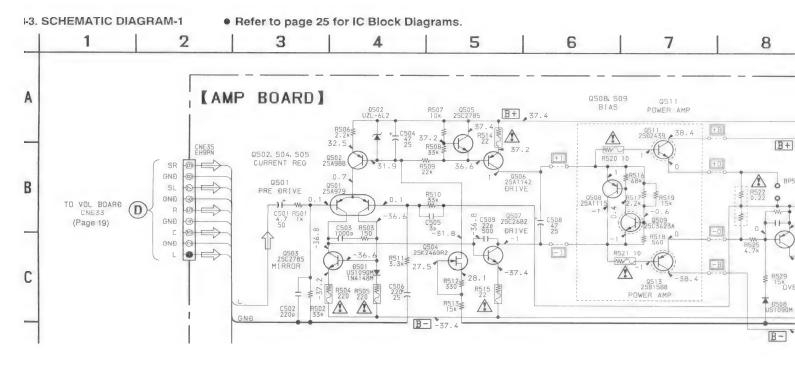
- O— : parts extracted from the component side.
- :: Pattern on the side which is seen.
- Abbreviation
  G: German
  SP: Singapore
  CH: Chinese

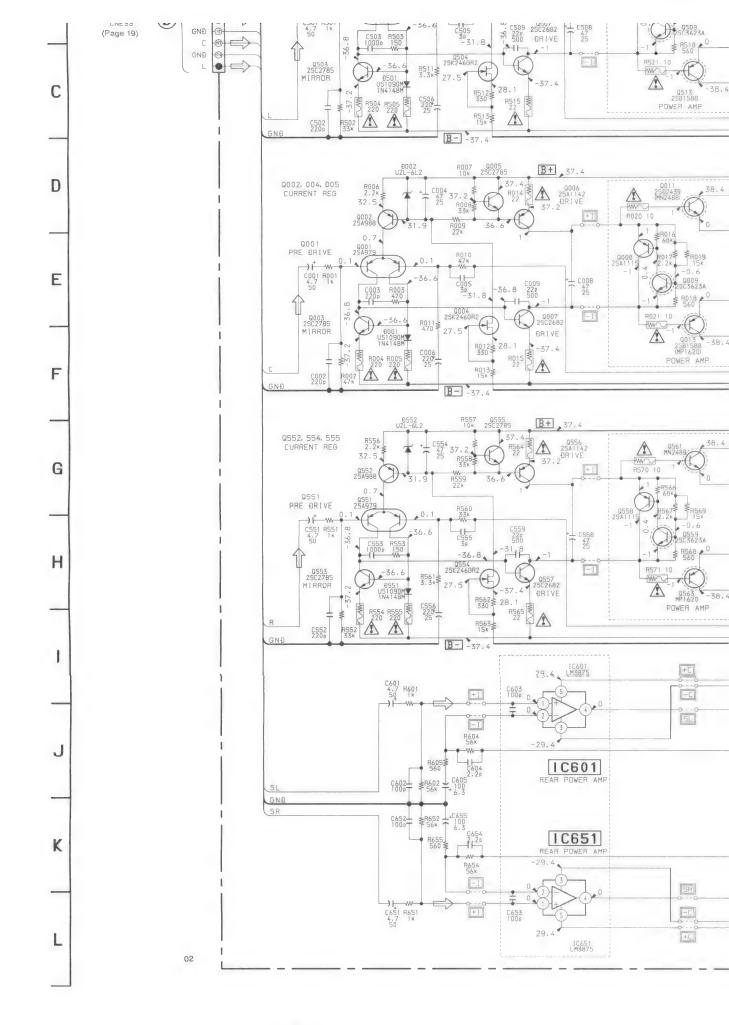


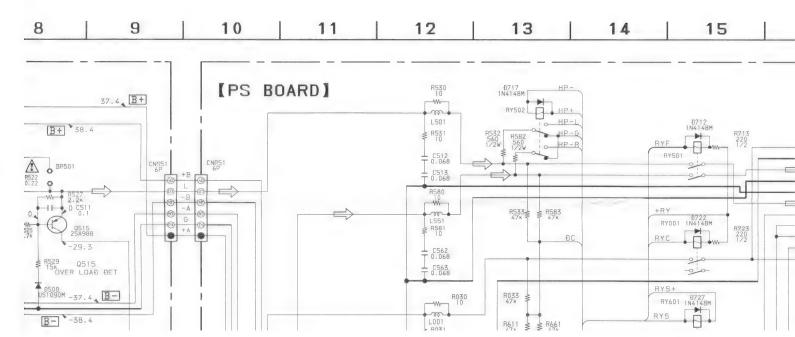


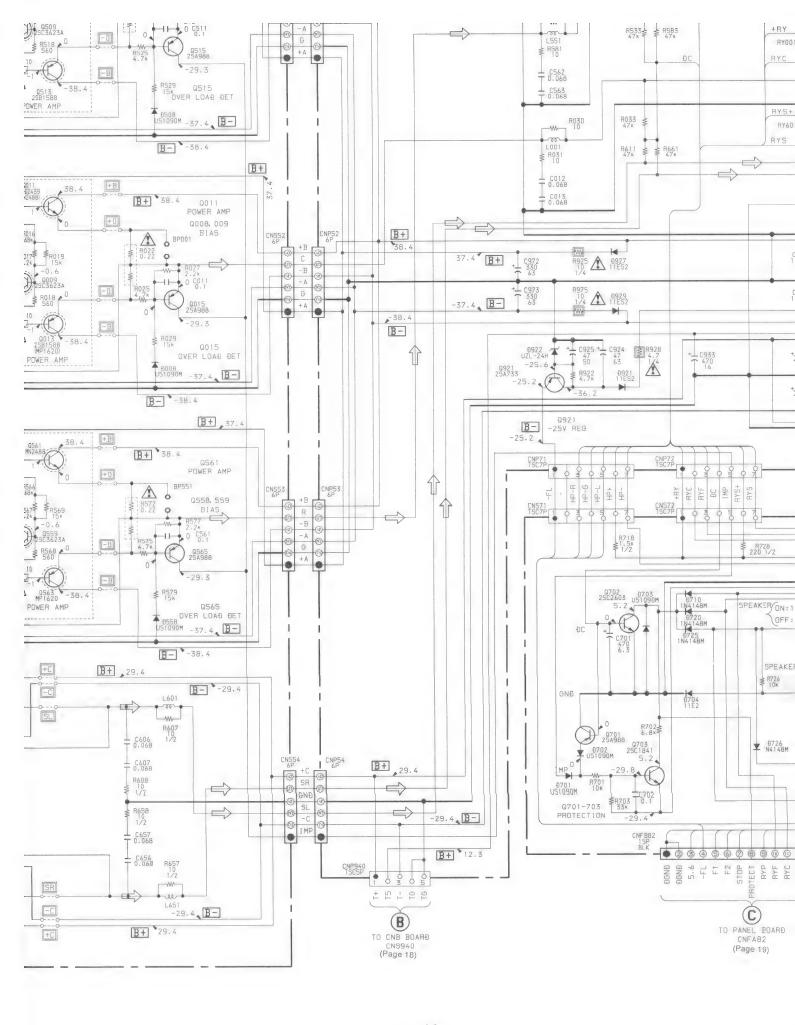


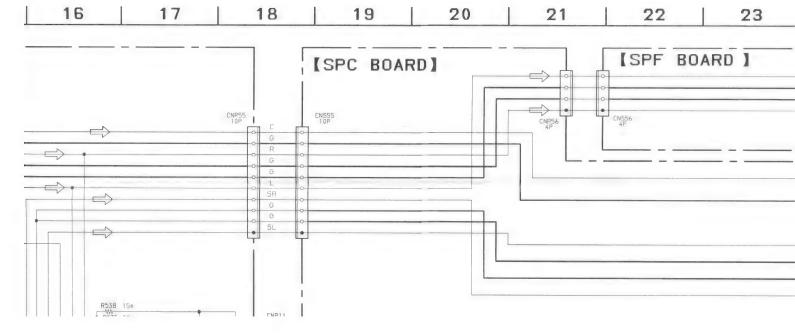


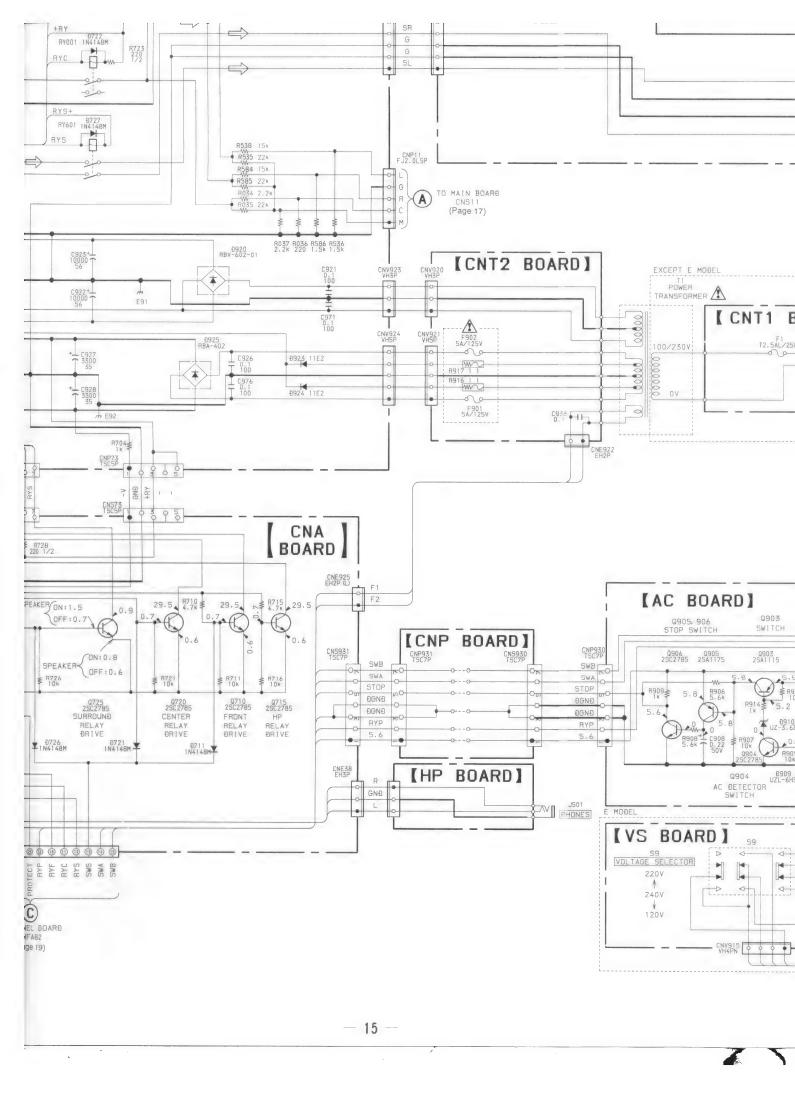


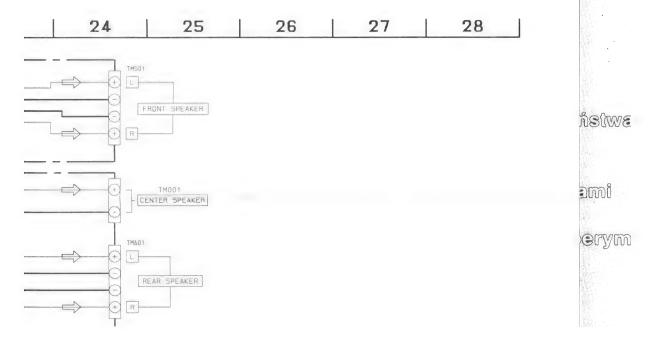


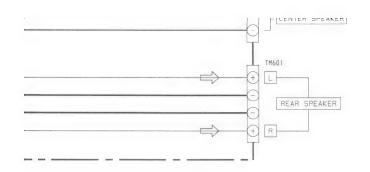


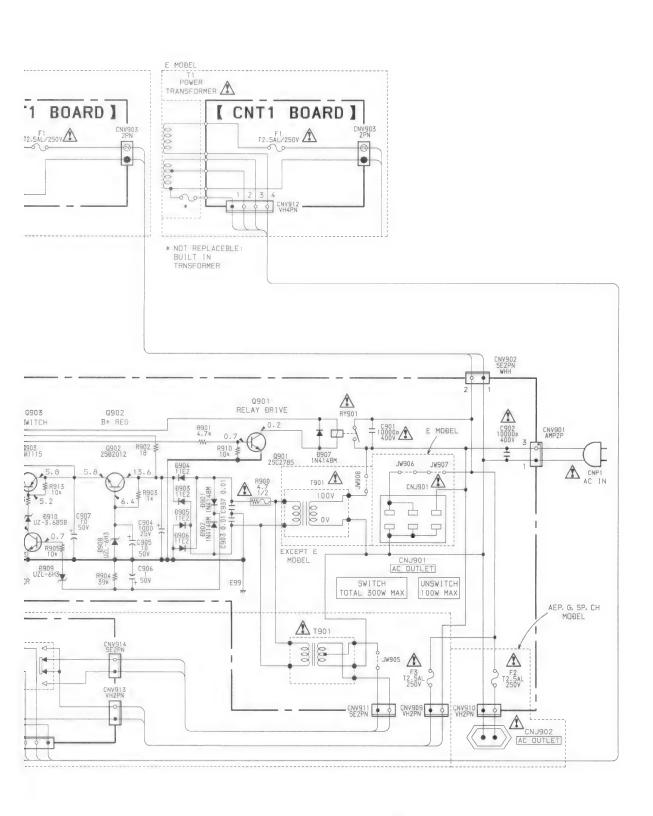


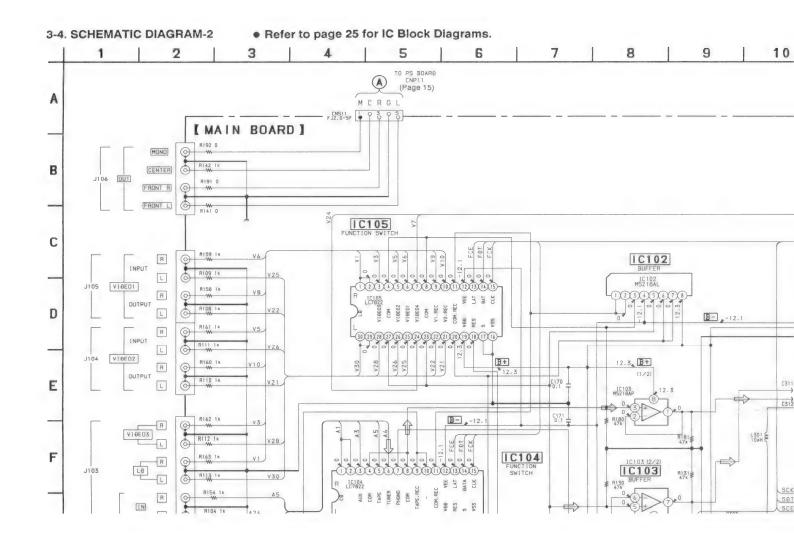


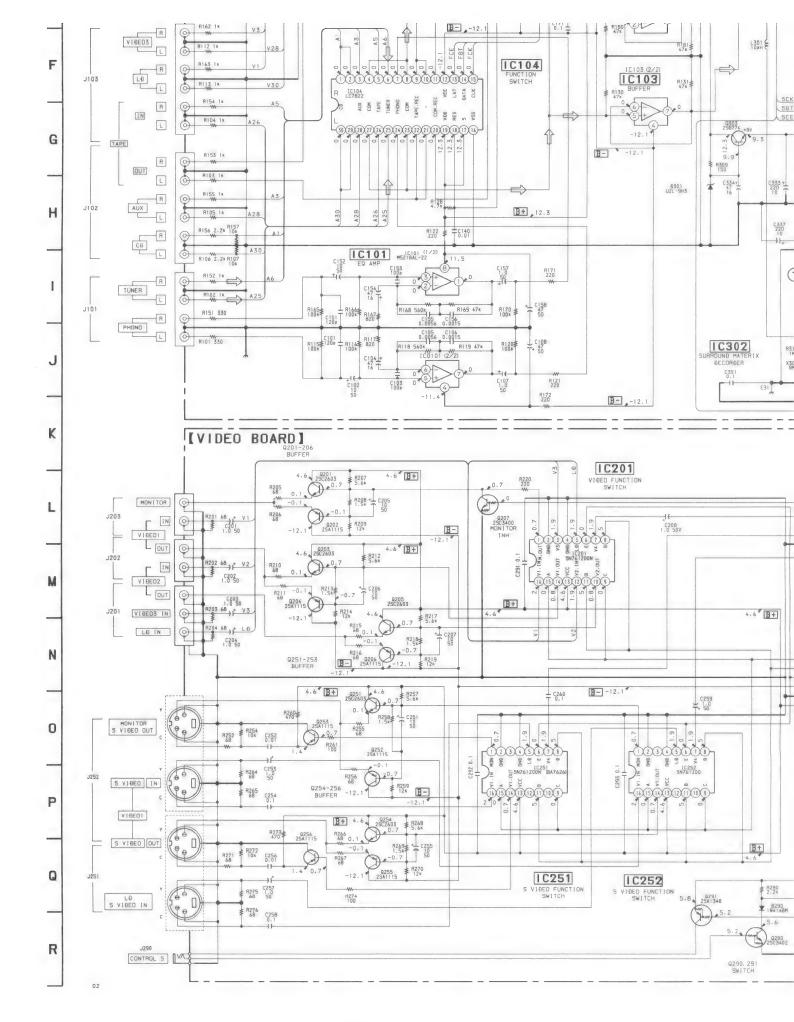






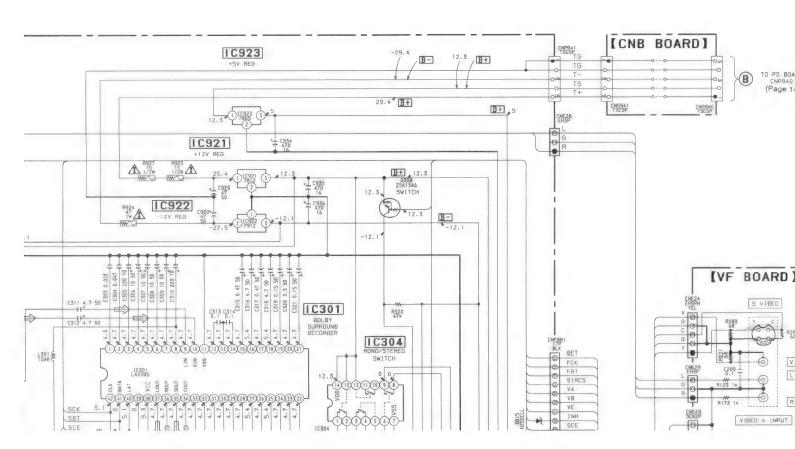


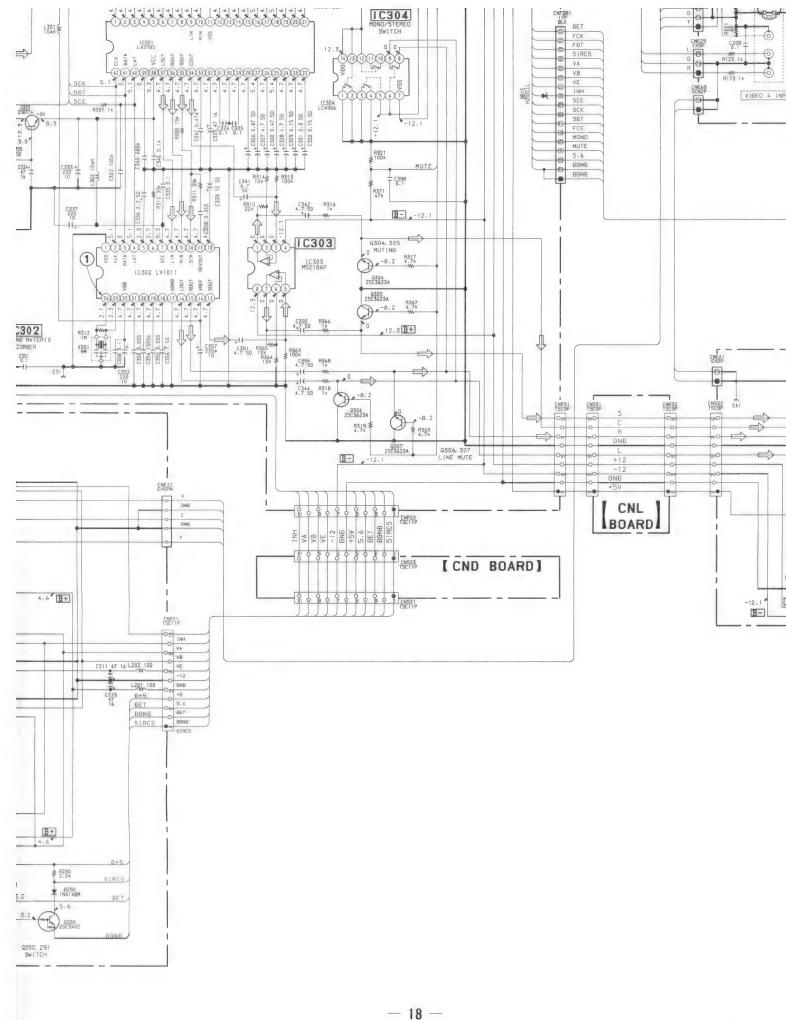




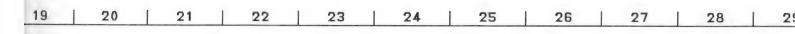
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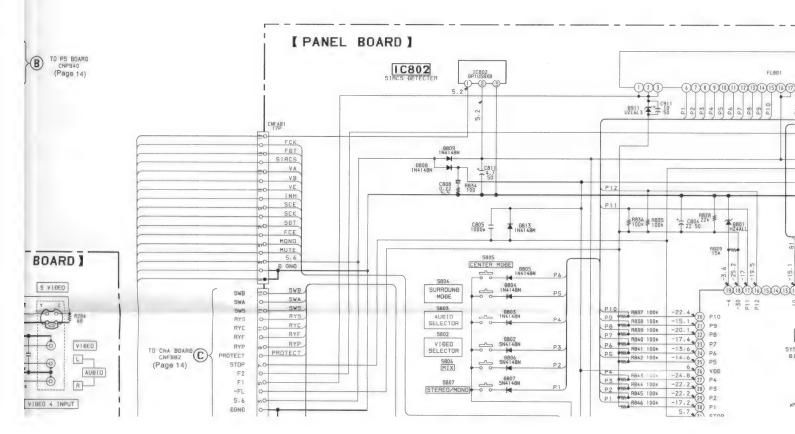
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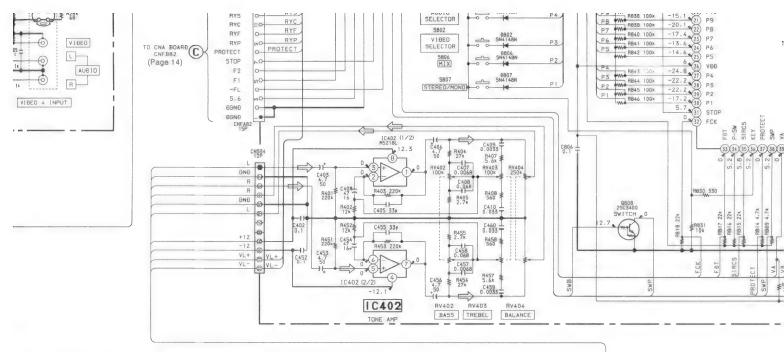


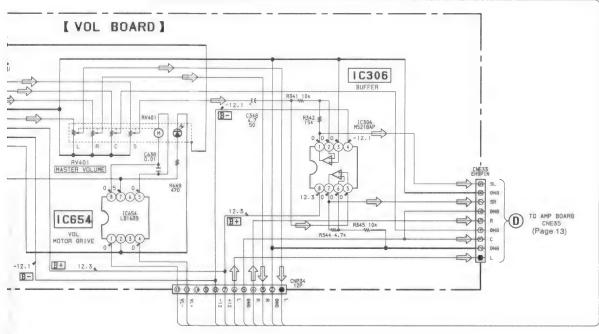


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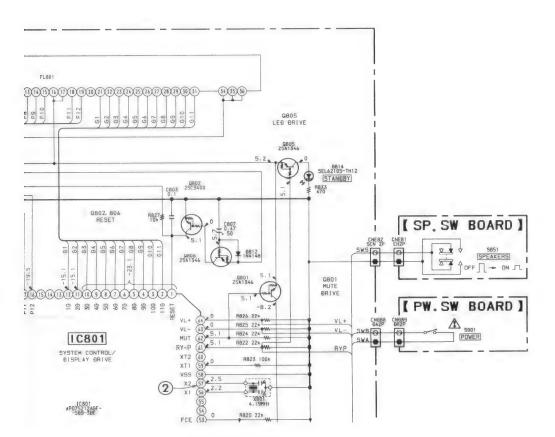




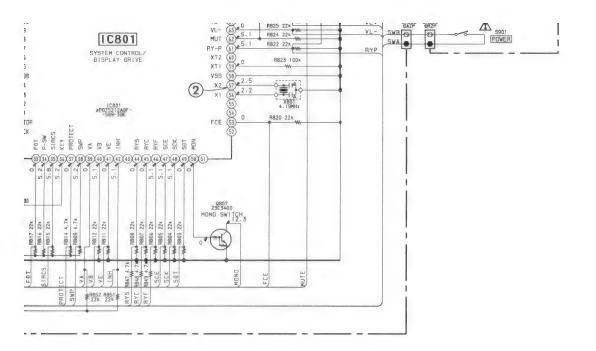




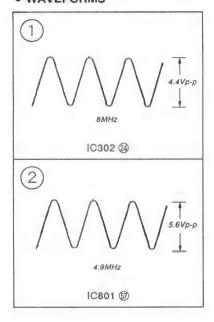
29 | 30 | 31 | 32 | 33 | 34 | 35







# WAVEFORMS



## Note:

- All capacitors are in  $\,\mu$  F unless otherwise noted. pF:  $\mu$   $\mu$  F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  ${1\!\!/}_4W$  or less unless otherwise specified.
- · % : indicates tolerance.
- △ : internal component.
- · fusible resistor.

Note: The components identified by mark or dotted line with mark are critical for safety.

Replace only with part number specified.

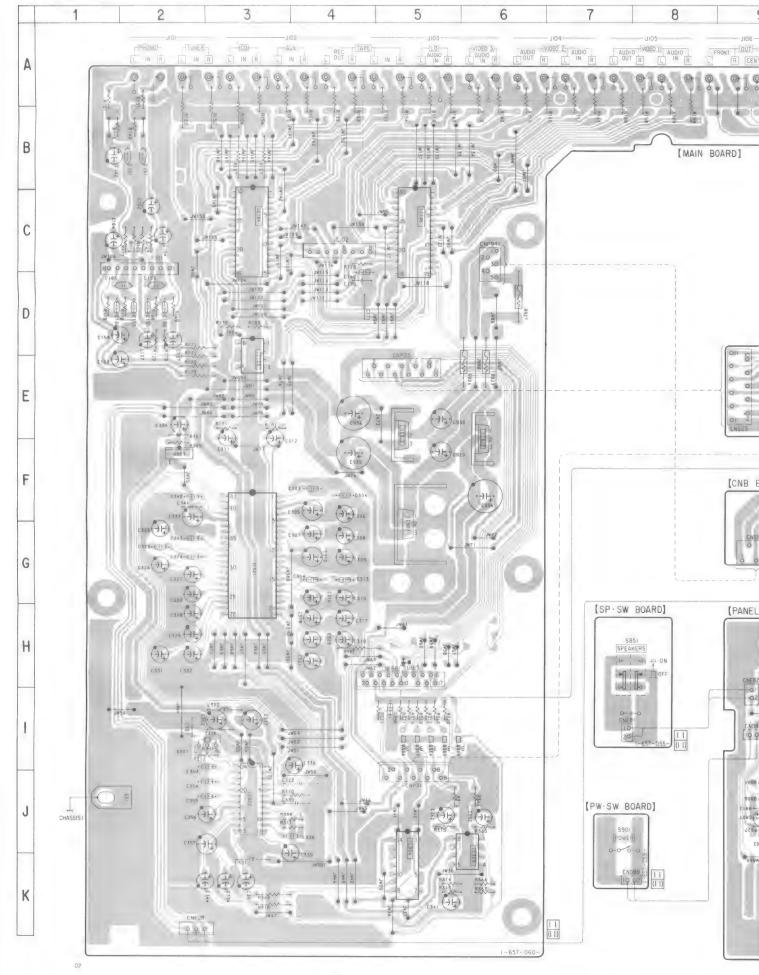
• B+ Line

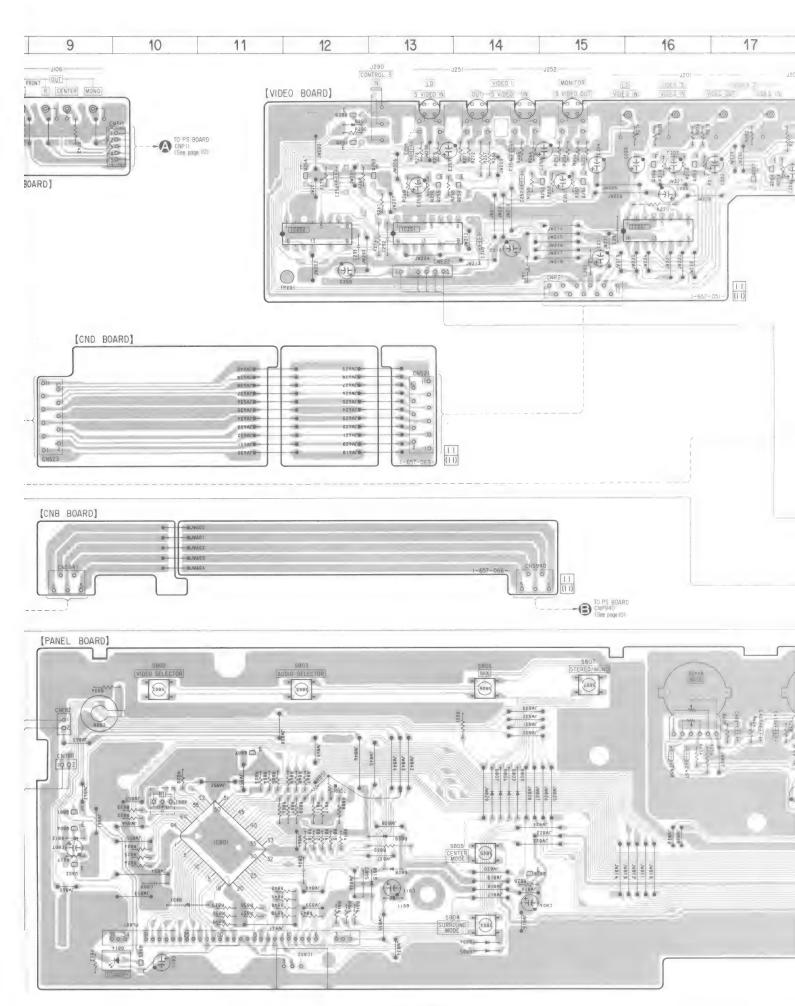
• **B** - : B - Line

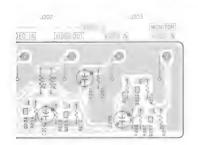
 Voltage and waveforms are dc with respect to ground under no-signal conditions.

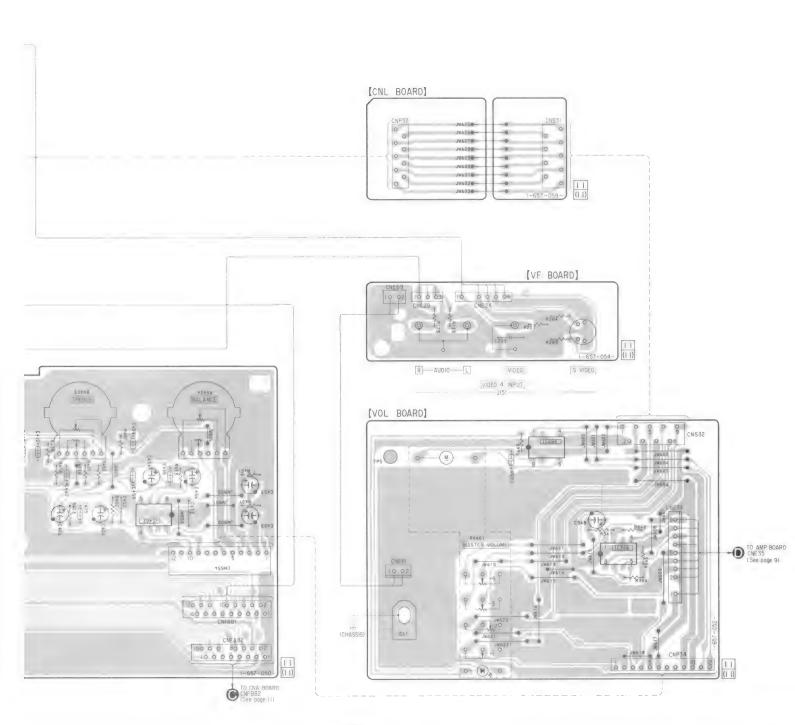
no mark : PHONO

- Voltages are taken with a VOM ( Input impedance 10M  $\Omega$  ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
   Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- · Signal path.









2	6

Ref. No.	Location	Ref. No.	Location
D290	A-12	IC801	J-11
D301	E-2	IC802	K-12
D801	K-10	IC921	F-5
D802	1-14	IC922	E-5
D803	1-14	IC923	F-6
D804	K-14		
D805	K-14	Q201	B - 19
D806	I - 14	Q202	B-19
D807	1-14	Q203	B-18
D808	J-13	Q204	B - 17
		Q205	B-16
D809	J-13		
D812	J-9	Q206	B-16
D813	J-13	Q207	B - 17
D814	K-10	Q251	B - 15
D815	H-5	Q252	B - 15
		Q253	B-13
D911	K-13		
		Q254	B-14
		Q255	B-13
IC101	C-2	Q256	B-12
IC102	C-4	Q290	A - 12
IC103	E-3	Q291	B - 12
IC104	C-3		
IC105	C-5	Q303	F-2
		Q304	1-5
IC201	C - 16	Q305	1-5
IC251	C-13	Q306	l - 5
IC252	C-12	Q307	1-5
IC301	G - 3		
IC302	J - 3	Q308	I - 5
IC303	J - 6		
IC304	J-5		
IC306	J - 24		
IC402	I - 10		
IC654	I - 23		

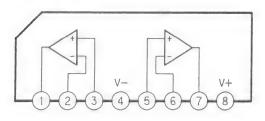
AMP BOARD E35 ee page 91

# Note:

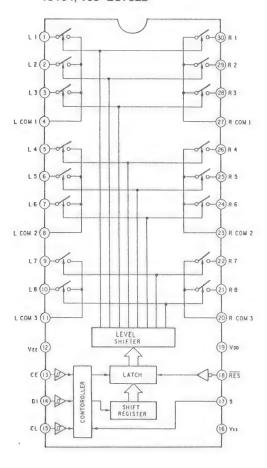
- O—: parts extracted from the component side.
- parts mounted on the conductor side.
- Pattern on the side which is seen.

## • IC BLOCK DIAGRAMS

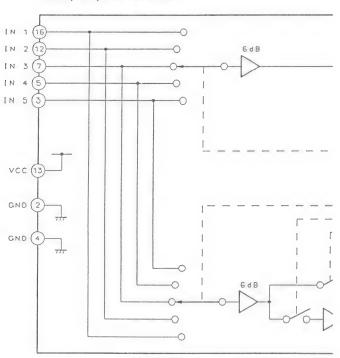
# IC102 M5218AL



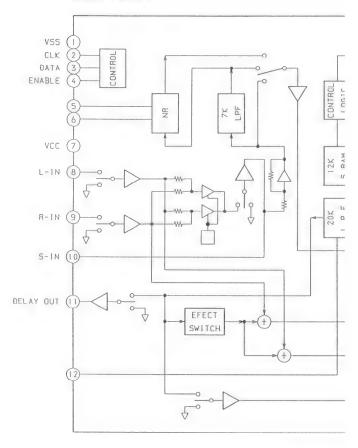
IC104, 105 LC7822

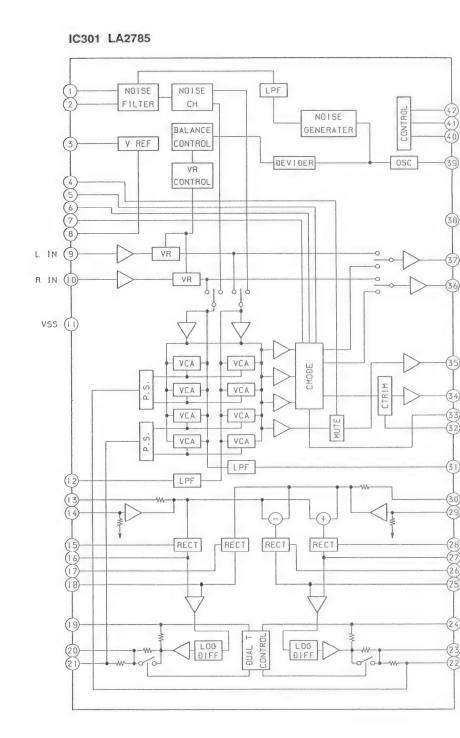


IC201, 251, 252 SN761200

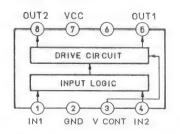


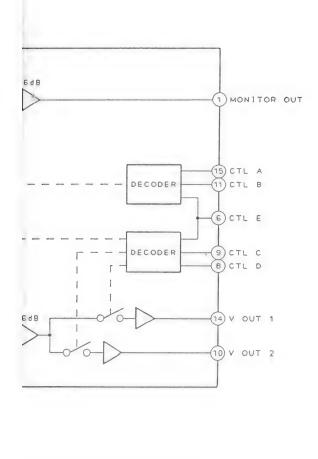
IC302 LV1011

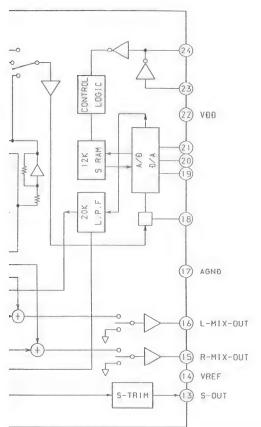




# IC654 LB1639







# SECTION 4 EXPLODED VIEWS

## NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example:
   KNOB, BALANCE (WHITE)....(RED)

Parts color Cabinet's color

 Items marked " \* "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 The mechanical parts with no reference

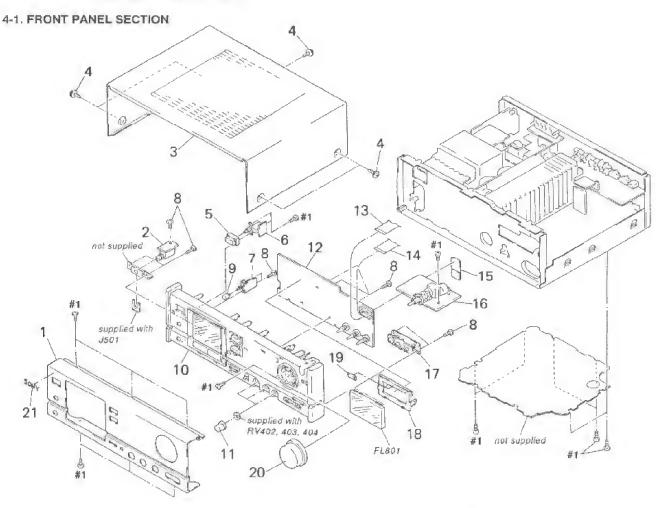
 The mechanical parts with no reference number in the exploded views are not supplied.

 Hardware (# mark) list and accessories and packing materials are given in the last of this parts list. The components identified by mark A or dotted line with mark A are critical for safety.

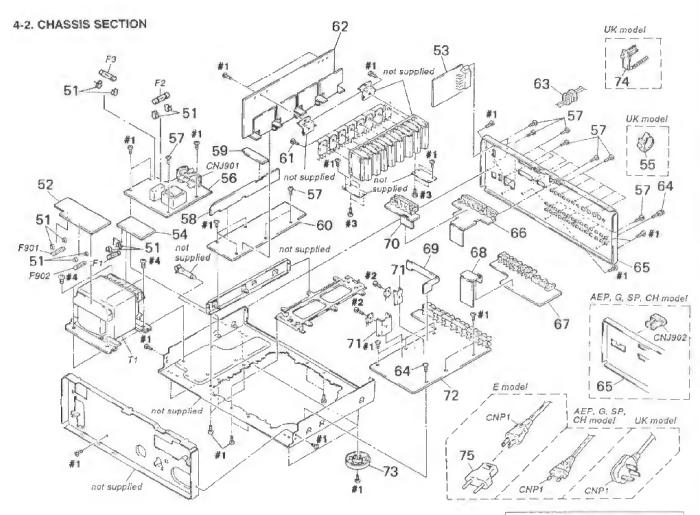
Replace only with part number specified.

#### Abbreviation

G : German SP : Singapore CH : Chinese



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 1 * 2 3 3	4-954-972-31 1-657-056-11 4-924-920-13	PANEL, FRONT (BLACK) (AEP, UK, G) PANEL, FRONT (GRY) (E, SP, CH) HP BOARD CASE (GRY) (E, SP, CH) CASE (BLACK) (AEP, UK, G)		11 11 * 12 13 14	4-954-979-11 A-4378-427-A 1-773-644-11	KNOB (18) (BLACK) (AEP, UK, G) KNOB (18) (GRY) (E, SP, CH) PANEL BOARD, COMPLETE WIRE (FLAT TYPE) (17 CORE) WIRE (FLAT TYPE) (15 CORE)	
4 5 5 * 6 * 7	4-917-460-81		( in APP )	* 15 * 16 * 17 * 18 * 19	1-657-059-11 1-657-052-11 1-657-054-11 4-954-977-01 4-955-901-01	VOL BOARD VF BOARD	
8 9 9 10	4-954-978-01 4-954-978-11 X-4946-097-2	SCREW (2.6X8), +BVTP BUTTON (10) (BLACK) (AEP, UK, G) BUTTON (10) (GRY) (E, SP, CH) BASE ASSY, PANEL (AEP, UK, G) BASE ASSY, PANEL (E, SP, CH)		20 20 21 FL801	X-4942-976-1 4-942-568-01	KNOB (50) ASSY (AEP, UK, G) KNOB (50) ASSY (E, SP, CH) EMBLEM (NG. 5), SONY INDICATOR TUBE, FLUORESCENT	



The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Re	ef. No.	Part No.	Description Remark
*	51	1-533-213-31	HOLDER, FUSE
*	52	1-657-064-11	CNT2 BOARD
		1-657-057-11	
串	54	1-657-063-11	CNT1 BOARD
		4-949-235-01	
*	56	A-4378-436-A	AC BOARD, COMPLETE (AEP, G, SP, CH)
			AC BOARD, COMPLETE (UK)
*	56	A-4378-438-A	AC BOARD, COMPLETE (E)
	57	3-704-515-11	SCREW (BV/RING)
*	58	1-657-062-11	CNA BOARD
*	59	1-657-365-11	CNP BOARD
*	60	A-4378-449-A	PS BOARD, COMPLETE
	61	3-905-609-01	SCREW (TRANSISTOR)
*	62	A-4378-440-A	AMP BOARD, COMPLETE
*	63	3-703-244-00	BUSHING (2104), CORD (AEP, UK, G, SP, CH)
*	63	3-703-571-11	BUSHING (S) (4516), CORD (E)
	64	4-947-010-01	SCREW, FEEDER FIXED
#	65	4-954-970-71	PANEL, BACK (AEP, G, SP, CH)
*	65	4-954-970-81	PANEL, BACK (UK)
*	65	4-954-970-91	PANEL, BACK (E)
*	66	1-657-067-11	SPC BOARD
*	67	A-4378-428-A	VIDEO BOARD, COMPLETE

Ref. No.	Part No.	Description Remark
<b>*</b> 68	1-657-069-11	CND BOARD
* 69	1-657-066-11	CNB BOARD
* 70	1-657-068-11	SPF BOARD
* 71	3-309-144-21	HEAT SINK
		MAIN BOARD, COMPLETE
73	4-956-885-11	FOOT (F58175S2W) (BLACK) (AEP, UK, G)
73	4-956 885-21	FOOT (F58175S2W) (GRY) (E, SP, CH)
		BAND, PLUG FIXED (UK)
		ADAPTER, CONVERSION 2P (E)
▼CN1a01	1-540-043-21	OUTLET, AC (AC OUTLET) (NONPOLAR) (3P)
ACNJ902	1-526-794-11	OUTLET, AC (ASP, G, SP, CH)
		CORD, POWER (E)
↑CNP1	1-575-651-21	CORD, POWER (AEP, G, SP, CH)
		CORD, POWER (UK)
<b></b> AF1	1-532-285-00	FUSE (T2. 5AL/250V)
∆F2	1-532-286-00	FUSE (12.5AL/250V) (AEP, G, SP, CH)
AF3	1-532-286-00	FUSE (T2, 5AL/250V) (E)
<b></b> AF901	1-532-299-00	FUSE (T5AL/250V)
<b></b> ∆F902	1-532-299-C0	FUSE (T5AL/250V)
<b>A</b> T1	1-427-982-11	TRANSFORMER, POWER (AEP, UK, G, SP, CH)
AT1	1-427-983-11	TRANSFORMER, POWER (E)

### SECTION 5 **ELECTRICAL PARTS LIST**

### NOTE:

 Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

· -XX, -X mean standardized parts, so they may have some difference from the original one.

RESISTORS

All resistors are in ohms METAL: Metal-film resistor METAL OXIDE: Metal oxide-film resistor F: nonflammable

Items marked " \* "are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.
 SEMICONDUCTORS

In each case,  $\mathbf{u}:\mathcal{U}$ , for example:  $\mathbf{u}A...:\mathcal{\mu}A....:\mathcal{\mu}A....:\mathcal{\mu}PA....:\mathcal{\mu}PA....:\mathcal{\mu}PA....:\mathcal{\mu}PB.....:\mathcal{\mu}PB...:\mathcal{\mu}PB...:\mathcal{\mu}PB....:\mathcal{\mu}PB....:\mathcal{\mu}PB....:\mathcal{\mu}PB....:\mathcal{\mu}PB....:\mathcal{\mu}PB...:\mathcal{\mu}PB...:\mathcal{\mu}PB...$ 

uPD....: μ PD....
• CAPACITORS
uF: μ F
• COILS

uH : μ H

The components identified by mark or dotted line with mark are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the

Abbreviation

G : German SP : Singapore CH : Chinese

			uH: μ1	H			CH	: Chinese			
Ref. No.	Part No.	Description	Rei	mark	Ref. No.	Part No.	Descriptio	n		Re	emark
*	A-4378-436-A	AC BOARD, COMPLETE	(AEP, G, SP, CH)		D902	8-719-987-63	DIODE IN	4148M			
*		AC BOARD, COMPLETE			D903-9						
*	A-4378-438-A	AC BOARD, COMPLETE	4 4			8-719-200-02		E2			
		***********	1		D907	8-719-987-63		4148M			
					D908	8-719-933-41		S6C3L			
		< BASE POST >			D909	8-719-933-41	DIODE HZ	S6C3L			
* BP901	1-535-139-00	BASE POST 19MM (10	MM PITCH) ŹP		D910	8-719-010-23	DIODE UZ	-3. 6BSB			
		< CAPACITOR >					< TERMINAL	BOARD >			
AC901	1-161-744-51	CERAMIC 0	01uF	400V	E99	1_697_770_91	TERMINAL D	OADD CDAIL	מיי		
AC902	1-161-744-51		OluF	4007	E33	1-537-770-21	TERMINAL B	ONKD, GROU	ND		
C903	1-164-096-11		OluF	50V			< FUSE >				
C904	1-124-557-11		00uF 20%	25V			V ruan Z				
C905	1-124-907-11		uF 20%	50V	ÆF2	1-532-286-00	EHOU /TO F	M /9E0W) (	APD C	en eu	
0000	1 101 301 11	LDDC1 10	204	501	ÆF3	1-532-286-00				or, Ch)	
C906	1-124-903-11	ELECT 1n	F 20%	50V	YIJI	1 000 200 00	100D (12, 5	AL/ 600 F) (	L)		
C907	1-124-907-11		uF 20%	50Y			< TRANSIST	OR >			
C908	1-124-464-11		22uF 20%	50Y			110110101	OIC /			
C937	1-164-096-11		01uF	50V	Q901	8-729-620-05	TRANSISTOR	2SC2603	_FF		
					0902	8-729-209-15					
		< JACK >			Q903	8-729-119-76					
					Q904	8-729-620-05					
ACNJ901	1-540-043-21	OUTLET, AC (AC OUT	LET) (NONPOLAR)	(3P)	Q905	8-729-119-76					
		, , , , , , , , , , , , , , , , , , , ,		(E)	Q O O O				114 65		
		< CONNECTOR >			Q906	8-729-620-05	TRANSISTOR	2SC2603	-EF		
							< RESISTOR	>			
		PIN, CONNECTOR (PC									
		PIN, CONNECTOR (PC	BOARD)		AR900	1-212-950-00	FUSIBLE	4. 7	5%	1/2W	F
		PIN, CONNECTOR 2P			R901	1-249-425-11	CARBON	4.7K	5%	1/4W	
		PIN, CONNECTOR 2P			R902	1-249-396-11	CARBON	18	5%	1/4W	
* CNV910	1-564-321-21	PIN, CONNECTOR 2P	(AEP, G, SP, CH)		R903	1-249-417-11		1K	5%	1/4W	
CNV911	1-564-321-00	PIN. CONNECTOR 2P	(8)		R904	1-249-436-11	CARBON	39K	5%	1/4\	
CALLDEA	1 001 021 00	THE CONTROCTOR DI	(b)	100	R905	1-249-429-11	CAPRON	10K	5%	1/4%	
		< DIODE >			R906	1-249-426-11		5. 6K		1/47	
					R907	1-249-420-11	4	10K	5% 5%	1/4W	
D901	8-719-987-63	DIODE 1N4148M			R908	1-249-426-11		5. 6K			
	00	ZITTI TOM			11000	1 740 170_1T	UNIDUN	a. on	2.0	1/4W	

# AC AMP

Ref. No.	Part No.	Description		Rem	ark	Ref. No.	Part No.	Description		Re	mark
R909	1-249-417-11	CARBON	1K 5%	1/4\		C601	1-126-963-11	ELECT	4. 7uF	20%	50V
R910	1-249-429-11	CARBON	10K 5%	1/4%		C602	1-162-282-31		100PF	10%	50V
	1-249-429-11		10K 5%	1/4%		C603	1-162-282-31		100PF	10%	SOV
	1-249-417-11		1K 5%	1/4₩		C604	1 162 191 31		2. 2PF	10%	50V
11024	1 545 411 11	Chitadh	111 0/0	1/44		C605	1-124-443-00		100uF	20%	107
		< RELAY >				C019	1-124-440-00	DECI	TOUR	20%	104
		( RDERT )				C606	1-136-163-00	FILM	0.068uF	5%	50V
A RY901	1-515-701-11	RELAY				C607	1-136-163-00		0. 068uF	5%	50Y
21111000	. 015 101 12	TIDDIT1				C651	1-126-963-11		4. 7uF	20%	50V
		< TRANSFORMER >	,			C652	1-162-282-31		100PF	10%	50V
		TITLE OF GRANGES P			]	C653	1-162-282-31		100PF	10%	50V
<b>↑</b> T901	1-449-071-21	TRANSFORMER, PO	WER (AEP. UK.	G. SP. CH	)	0000		Cordinac	10011	10%	001
		TRANSFORMER, PO		, , , ,	´	C654	1-162-191-31	CERAMIC	2. 2PF	10%	50V
-		**********	, ,	******	****	C655	1-124-443-00		100uF	20%	10V
					1	C656	1-136-163-00		0. 068uF	5%	50V
*	4-4378-440-4	AMP BOARD, COMP	O RTE			C657	1-136-163-00		0. 068uF	5%	50V
Т	n solo seo n	*******				0031	1-130-103-00	LIUM	u. uudur	3/6	auv
		***************************************	****					< CONNECTOR :	>		
		< BASE POST >									
							1-691-771-11	PLUG (MICRO (	CONNECTOR) 9P		
	1-535-115-00					* CNS51-					
	1-535-115-00						1-750-533-11	SOCKET 6P			
* BP551	1-535-115-00	TERMINAL									
		< CAPACITOR >						< DIODE >			
		CAPACITOR >				D001	8-719-002-83	DIODE USIO	9CM-TP		
C001	1-126-963-11	FIECT	4. 7uF	20%	50V	D002	8-719-933-35				
C002	1-164-077-11		220PF	10%	507	D002	8 719 -002 - 83		9CM-TP		
C003	1-110-339-11		220PF	5%	507	D501	8-719-002-83		9ÚM-TP		
C004	1-124-477-11		47uF	20%	25V	D502	8-719-933-35				
C005	1-164-039-11		3PF	0. 25PF		D302	6-119-999-99	DEODE U7200	AGL .		
0003	1-104-039-11	CEMMITC	311	U. GOFF	301	D508	8-719-002-83	DYADE HELA	OM TP		
C006	1-124-120-11	FIRCT	220uF	20%	25V	D551	8-719-002-83		90M-TP		
C008	1-124-477-11		47uF	20%	25V	D552	8-719-933-35				
C009	1-107-597-11		22PF	10%	500V	D558					
						Deed	8-719-002-83	DIODE 0210:	9CM-TP		
C011 C501	1-136-165-00 1-126-963-11		0. 1uF	5%	50V			. 10 >			
C201	1-170-809-13	ELEA, I	4. 7uF	20%	50V			< IC >			
C502	1-164-077-11	CERAMIC	220PF	10%	50V	10601	8-759-085-89	IC 1M3875-9	3		
C503	1-130-471-00		0,001uF	5%	50V		8-759-085-89				
C504	1-124-477-11		47uF	20%	25V	20002	0 100 000 00	LO DINOGIO	J		
C505	1-164-039-11		3PF	0. 25PF				< COIL >			
C506	1-124-120-11		220uF	20%	25V			( 001D )			
						* L601	1-420-872-00	COIL, AIR-COL	RE		
C508	1-124-477-11	ELECT	47uF	20%	25V	* L651		COIL, AIR-CO			
C509	1-107-597-11		22PF	10%	500V			,	-		
C511	1-136-165-00		0. luF	5%	50V			< TRANSISTOR	>		
C551	1-126-963-11		4. 7uF	20%	50V						
C552	1-164-077-11		220PF	10%	50V	Q001	8-729-620-18	TRANSISTOR	2SA979-FG		
				2070		Q002	8 729 140 82		2SA988-PAFAEA		
C553	1-130-471-00	MYLAR	0.001uF	5%	50V	Q003	8-729-119-79		2SC2785-FEK		
C554	1-124-477-11		47uF	20%	25V	Q003	8-729-201-56		2SK246-GR2		
C555	1-164-039-11		3PF	0.25PF		Q005	8-729-119-79		2SC2785-FEK		
C556	1-124-120-11		220uF	20%	257	6000	0 149-110-19	TOTOLOGIC	MITTED I GOOG		
C558	1-124-120-11					0002	0 790 000 71	TO AND LOT ON	2011107 0		
C330	1-104-411-11	PPECI	47uF	20%	25V	Q006	8-729-802-71		2SA1407-D		
CEED	1 107 507 11	CEDANIC	2200	1.00/	FAATT	Q007	8-729-805-05		2SC3601-E		
C559	1 107-597-11		22PF	10%	500V	Q008	8-729-119-76		2SA1175-HPE		
C561	1-136-165-00	r i LM	0. luF	5%	50V	<b>Q</b> 009	8-729-141-30	TRANSISTOR	2SC3623A-LK		

## **AMP**

Ref. No.	Part No.	Description			Re	mark	Ref. No.	Part No.	Description			Re	mark
1011110					-	-III LA		1011 110.	Dedoi ip tron			-	
Q011	8-729-020-52		2SD2439-	-OPY			AR021	1-212-857-00		10	5%	1/49	F
Q013	8-729-020-48	TRANSISTOR	2SB1588	OPY			AR022	1-239-912-21	ENCAPSULATED	COMPONEN	T	0.22	
Q015	8-729-140-82	TRANSISTOR	2SA988-I	PAFAEA			R025	1-249-425-11	CARBON	4.7K	5%	1/4₩	
Q501	8-729-620-18	TRANSISTOR	2SA979-I	FG			R027	1-249-421-11	CARBON	2.2K	5%	1/49	
Q502	8-729-140-82		2SA988-1				R029	1-249-431-11		15K	5%	1/48	
4000	0 125 110 55	THE TOTAL	DERIEGO I	TEL PALITY			Itomo	1 010 101 11	DANCEA	400	1,770	17 411	
Q503	8-729-119-79	TRANSISTOR	2SC2785-	-FEK			R501	1-249-417-11	CARBON	1K	5%	1/4₩	
Q504	8-729-201-56	TRANSISTOR	2SK246-0	GR2			R502	1-249-435-11	CARBON	33K	5%	1/4W	
Q505	8-729-119-79	TRANSISTOR	2SC2785-	-FEK			R503	1-249-407-11	CARBON	150	5%	1/4W	
Q506	8-729-802-71		2SA1407-				AR504	1-212-889-00		220	5%	1/4₩	F
Q507	8-729-805-05		2SC3601-				AR505	1-212-889-00		220	5%	1/4W	
Q508	8-729-119-76	TRANSISTOR	2SA1175				R506	1-249-421-11	CARBON	2. 2K	5%	1/4W	
Q509	8-729-141-30	TRANSISTOR	2SC36237	\-LK			R507	1-249-429-11	CARBON	10K	5%	1/4W	
Q511	8-729-020-52	TRANSISTOR	2SD2439-	-OPY			R508	1-249-435-11	CARBON	33K	5%	1/4₩	
Q513	8-729-020-48	TRANSISTOR	2SB1588-	-OPY			R509	1-249-433-11	CARBON	22K	5%	1/4₩	
Q515	8-729-140-82		2SA988-1				R510	1-247-765-11		33K	5%	1/2₩	
*													
Q551	8-729-620-18	TRANSISTOR	2SA979-1	FG			R511	1-247-758-11	CARBON	3. 3K	5%	1/20	
Q552	8-729-140-82	TRANSISTOR	2SA988-1	PAFAEA			R512	1-249-411-11	CARBON	330	5%	1/4₩	
Q553	8-729-119-79	TRANSISTOR	2SC2785-	-FEK			R513	1-249-431-11	CARBON	15K	5%	1/4₩	
Q554	8-729-201-56	TRANSISTOR	2SK246-0	GR2			A\R514	1-212 865 00		22	5%	1/4₩	F
Q555	8-729-119-79		2SC2785-				AR515	1-212-865-00		22	5%	1/4W	
4000	0 100 110 10	I IIII DI DI DI OII	5005105	1 CM1			7311010	1 212 000 00	1 OO1 DEL	50	CONT.	A / 10 P	1
Q556	8-729-802-71	TRANSISTOR	2SA1407-	-D			R516	1-249-439-11	CARBON	68K	5%	1/4W	
Q557	8-729-805-05	TRANSISTOR	2SC3601-	-3			R517	1-249-421-11	CARBON	2. 2K	5%	1/4W	
Q558	8-729-119-76		2SA1175				R518	1-249-414-11		560	5%	1/4W	
Q559	8-729-141-30		2SC36232				R519	1-249-431-11		15K	5%	1/4W	
Q561	8-729-020-52		2SD2439-				AR520	1-212-857-00		10	5%	1/4W	F
Q563	8-729-020-48		2SB1588-	-OPY			<u> </u>	1-212-857-00	FUSTBLE	10	5%	1/4W	F
Q565	8-729-140-82	TRANSISTOR	2SA988-1	PAFAEA			<b> ♠</b> R522	1-239-912-21	ENCAPSULATED	COMPONENT	Γ	0.22	
							R525	1-249-425-11	CARBON	4, 7K	5%	1/4₩	
		< RESISTOR >	>				R527	1-249-421-11	CARBON		5%	1/4₩	
							R529	1-249-431-11		15K	5%	1/4W	
R001	1-249-417-11	CARBON	1K	5%	1/4W								
R002	1-249-437-11	CARBON	47K	5%	1/4₩		R551	1-249-417-11	CARBON	1K	5%	1/4W	
R003	1-249-413-11	CARBON	470	5%	1/4₩		R552	1-249-435-11	CARBON	33K	5%	1/4W	
AR001	1-212-889-00	FUSIBLE	220	5%	1/4W	F	R553	1-249-407-11		150	5%	1/4₩	
AR005	1-212-889-00		220	5%	1/49		<b> AR554</b>	1-212-889-00		220	5%	1/4W	F
71111000	2 325 050 50	401010		0,0	-,,	*	AR555	1-212-889-00		220	5%	1/4₩	
R006	1-249-421-11	CARBON	2. 2K	5%	1/4W		213.000	1 210 000 00	1 00111111	200	O/C	27 24	-
R007	1-249-429-11		10K	5%	1/4₩		R556	1-249-421-11	CARRIM	2. 2K	59	1/4W	
R008	1-249-435-11		33K		1/4W			1-249-429-11			5%	1/4₩	
R009	1-249-433-11		22K	5%				1-249-435-11					
					1/4W		R558			33K	5%	1/4W	
ROID	1-249-492-11	CARDON	47K	5%	1/2₩		R559	1-249-433-11		22K	5%	1/4₩	
R011	1-247-747-11	CARRON	470	5%	1/2₩		R560	1-247-765-11	CARCORY	33K	5%	1/2W	
R012	1-249-411-11		330	5%	1/4W		DECI	1 047 770 11	CARRON	210 0	rov	1 /048	
							R561	1-247-758-11		3, 3K	5%	1/2₩	
R013	1-249-431-11		15K	5%	1/4W	F	R562	1-249-411-11		330	5%	1/4₩	
<b></b> AR014	1-212-865-00		22	5%	1/4W		R563	1-249-431-11		15K	5%	1/4W	
<b></b> R015	1-212-865-00	LOZIBLE	22	5%	1/4W	F	AR564	1-212-865-00		22	5%	1/4₩	
R016	1-249-439-11	CARBON	68K	5%	1/4W		<u></u>	1-212-865-00	LOSIBLE	22	5%	1/4₩	
R017	1-249-421-11		2. 2K				Deee	1-249-439-11	CARDON	cor	COV	1 / 457	
R017					1/4W		R566		-	68K	5%	1/4₩	
	1-249-414-11		560	5%	1/4W		R567	1-249-421-11			5%	1/4₩	
R019	1-249-431-11		15K	5%	1/4W	55	R568	1-249-414-11		560	5%	1/4₩	
<u> </u>	1-212-857-00	LO21RFF	10	5%	1/4W	P	R569	1-249-431-11	CARBON	15K	5%	1/47	

Ref. No.	Part No.	Descrip	tion			Re	emark	Ref. No.	Part No.	Description			Remark
↑R570	1-212-857-00	FUSIBLE		10	5%	1/4W	F	Q702	8-729-620-05	TRANSISTOR	2SC2603-	EF	
AR571	1-212-857-00			10	5%	1/4W	F	Q703	8-729-140-84	TRANSISTOR	2SC1841-	PAFAEA	
<b>A</b> R572	1-239-912-21	ENCAPSUI	LATED CO	MPONEN	T	0.22		Q710	8-729-620-05	TRANSISTOR	2SC2603-	EF	
R575	1-249-425-11			4. 7K		1/4W		Q715	8-729-620-05	TRANSISTOR	2SC2603-	EF	
R577	1-249-421-11	CARBON		2. 2K	5%	1/4W		Q720	8-729-620-05	TRANSISTOR	2SC2603-	EF	
R579	1-249-431-11	CARBON		15K	5%	1/4₩		Q725	8-729-620-05	TRANSISTOR	2SC2603-	EF	
R601	1-249-417-11	CARBON		1K	5%	1/47							
	1-249-438-11			56K	5%	1/4W				< RESISTOR >			
	1-249-438-11			S6K	5%	1/4W							
R605	1-249-414-11	CARBON		560	5%	1/4W		R701	1-249-429-11		10K	5%	1/4₩
					-41	- 15-		R702	1-249-427-11		6. 8K		1/4₩
R607	1-247-727-11			10	5%	1/2₩		R703	1-249-435-11		33K	5%	1/4₩
	1-247-727-11	-		10	5%	1/2W		R710	1-249-425-11			5%	1/4₩
	1-249-417-11			1K	5%	1/47		R711	1-249-429-11	CARBON	10K	5%	1/4₩
R652	1-249-438-11			56K	5%	1/47				A			
R654	1-249-438-11	CARBON		56K	5%	1/4W		R715	1-249-425-11		4.7K	5%	1/4開
***	2 0 10 114 22	di prodit		E00	E 04	1 (47)		R716	1-249-429-11		10K	5%	1/4W
	1-249-414-11			560	5%	1/4W		R718	1-247-754-11	*		5%	1/2W
	1-247-727-11			10	5%	1/2W		R721	1-249-429-11		10K	5%	1/4W
R658	1-247-727-11			10	5%	1/2W	alle als als als at	R726	1-249-429-11	CARBON	10K	5%	1/4W
*****	******	*****	*****	*****	****	*****	****	R728	1-247-743-11	CARBON	220	5%	1/2W
k	1-657-062-11	CNA BOAR	RD						********				
		******	* *					*	1 657 066 11	CUP POARD			
		< CAPAC	ITOR >					*	1-657-066-11	******			
	1-126-941-11 1-136-165-00			470uF 0. 1uF		20% 5%	6. 3V 50V			< CONNECTOR	>		
0100	1 100 100 00	LIDM		0. 101		D A	001		1-750-179-11				
		< CONNEC	CTOR >					-	1-750-179-11				
CNE38	1-564-518-11	PLUG. CO	ONNECTOR	3P				******	*******	**********	******	*****	*******
	1-564-517-11							*	1-657-069-11	CND BOARD			
	1-766-100-11				-ZIF)	) 15P			_ ,	*******			
	1-695-092-11					,							
CNS72	1-695-092-11	SOCKET.	CONNECT	TOR 7P						< CONNECTOR	>		
CNS73	1-750-179-11	SOCKET,	CONNECT	OR 5P				CNS21	1-695-094-11	SOCKET, CONN	ECTOR 11P		
CNS931	1-695-092-11	SOCKET,	CONNECT	FOR 7P				CNS23	1-695-094-11	SOCKET, CONN	ECTOR 117		
								*******	*********	********	*****	*****	*******
		< DIODE	>										
								*	1-657-059-11	CNL BOARD			
D701~7	03									*******			
	8-719-002-83		US1090N	4-TP									
	8-719-200-02		10E2							< CONNECTOR	>		
	8-719-987-63		1N4148N								/	> -	
	8-719-987-63		1N4148N						1-695-088-11		,	ARD) 9	P
D720	8-719-987-63	DIODE	1N4148M	A					1-695-093-11	-			
D721	8-719-987-63	DIODE	1N4148N	A				******	******	********	*******	*****	**********
	8-719-987-63		1N4148N										
	8-719-987-63		1041480										
DIGO	0 110 -001-00	D100B	11441,400	ra .									
		< TRANS	ISTOR >										
								1					

CNT 1	CNT 2	HP	MAIN
	CNT 1	CNI II CNI ZI	CNI I CNI Z HP

			0111	Oiti	1 0141	8m 111	]   ••	
Ref. No.	Part No.	Description Remark	Ref. No.	Part No.	Description		Re	emark
*	1-657-365-11	CNP BOARD			< CAPACITOR >			
		4.4 (0.4-0.4-1.4)	C101	1-164-072-11	CERAMIC	120PF	5%	50V
		< CONNECTOR >	C102	1-124-907-11	ELECT	10uF	20%	50V
			C103	1-164-070-11	CERAMIC	100PF	5%	50V
		PIN, CONNECTOR (PC BOARD) 7P	C104	1-104-664-11		47uF	20%	
		SOCKET, CONNECTOR 7P	C105	1-130-480-00	MYLAR	0. 0056uF	5%	50V
******	*********	************	C106	1-130-473-00	MVI AD	0. 0015uF	5%	50V
*	1-657-063-11	CNT1 ROARD	C107	1-124-903-11		luF	20%	50V
	1 001 000 11	******	C108	1-124-910-11		47uF	20%	50V
			C140	1-136-153-00		0, 01uF	5%	50V
		< CONNECTOR >	C151	1-164-072-11		120PF	5%	50V
CNV903	1-690-123-21	REED (WITH CONNECTOR) (2 CORE)	C152	1-124-907-11	ELECT	10uF	20%	50V
		PIN, CONNECTOR 4P (E)	C153	1-164-070-11		100PF	5%	50V
		,	C154	1-104-664-11		47uF	20%	
		< FUSE >	C155	1-130-480-00		0.0056uF	5%	50V
4 D1	1 500 600 00	THOSE AND EAR AREAST	C156	1-130-473-00	MYLAR	0.0015uF	5%	50V
		FUSE (T2.5AL/250V)	C157	1-124-903-11	ELECT	luF	20%	50V
			C158	1-124-910-11		47uF	20%	50Y
k .	1-657-064-11	CNT2 BOARD	C170	1~164-159-11		0. 1uF		50Y
		******	C171	1-164-159-11		0. luF		50V
			C303	1-136-157-00	FILM	0. 022uF	5%	50V
		< CONNECTOR >						
			C304	1-136-161-00		0.047uF	5%	50Y
		PLUG, CONNECTOR 2P		1-104-666-11	ELECT	220uF	20%	10V
		PIN, CONNECTOR (B3P-VH) 3P PIN, CONNECTOR 5P	C306-3	1-124-907-11	DIRCT	10uF	20%	50V
CHARACT	1-304-242-00	FIN, CONNECTOR OF	C310	1-104-666-11		220uF	20%	10Y
		< FUSE >		1-126-963-11		4. 7uF	20%	50V
		. 1000	0011	1 120 000 11	DDD01	71 101	200	001
<u> </u> ₹901	1-532-299-00	FUSE (T5AL/250V)	C312	1-126-963-11	BLECT	4. 7uF	20%	50V
&F902	1-532-299-00	FUSE (TSAL/250V)	C313	1-136-165-00	FILM	0. luF	5%	50V
			C314	1-136-165-00		0. luF	5%	50Y
		< RESISTOR >	C315	1-124-902-00		0. 47uF	20%	50V
4 DO10	1 015 (00 00	DIOTRID 1 PA 18 TO	C316	1-126-963-11	ELECT	4. 7uF	20%	50V
	1-217-469-00 1-217-469-00		0917	1 194 009 00	DI DOT	0 17. 0	n na	Env
De Santa		**************************************	C317 C318	1-124-902-00 1-126-963-11		0. 47uF 4. 7uF	20% 20%	50V 50V
	*******	**************************	C316	1-124-250-11		0. 15uF	20%	50V
4	1-657-056-11	HP ROARD		1-126-962-11		3. 3uF	20%	
'	1 001 000 11	******	C321	1-124-250-11		0. 15uF	20%	50V
		< CONNECTOR >	C322	1-162-282-31	CERAMIC	100PF	10%	50V
			C323	1-104-664-11		47uF	20%	16V
* CNE39	1-564-506-11	PLUG, CONNECTOR 3P	C324	1-136-165-00		0. luF	5%	50V
			C325	1-136-165-00	FILM	0. 1uF	5%	50V
		< JACK >	C326	1-124-902-00	ELECT	0. 47uF	20%	50V
J501	1-507-796-71	JACK (PHONES)	C327	1-126-963-11	ELECT	4. 7uF	20%	50V
k*****	*********	***********	C328	1-126-963-11	ELECT	4. 7uF	20%	50V
			C329	1-124-250-11	ELECT	0. 15uF	20%	50V
*	A-4378-447-A	MAIN BOARD, COMPLETE	C330	1-124-902-00		0. 47uF	20%	50V
		******	C331	1-126-962-11	ELECT	3. 3uF	20%	50V
*	1-535-730-21	LEAD, JUMPER (OFC)	C332	1-124-250-11	ELECT	0. 15uF	20%	50V

## MAIN

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Descr	iption			Remark
C333	1-104-666-11	ELECT	220uF	20%	10V	TC102	8-759-634-50	IC	M5218AL			
C334	1-104-664-11		47uF	20%	167		8-759-634-51		M5218AP			
C335	1-164-159-11		0. luF	20/4	50V		8-759-805-14		LC7822			
				200								
C336	1-124-925-11		2. 2uF	20%	100V		8-759-805-14		LC7822			
C337	1-104-666-11	ELECT	220uF	20%	107	TC301	8-759-248-74	IC	LA2785			
C338	1-136-159-00	FILM	0.033uF	5%	50V	IC302	8-759-341-23	IC	LV1011			
C339	1-124-907-11	ELECT	10uF	20%	50V	IC303	8-759-634-51	IC	M5218AP			
C340	1-130-469-00	MYLAR	680PF	5%	50V	IC304	8-759-801-01	IC	LC4966			
C341	1-126-963-11	ELECT	4. 7uF	20%	50V	IC921	8-759-231-58	IC	TA7812S			
C342	1-126-963-11	ELECT	4. 7uF	20%	50V	IC922	8-759-245-86	C	TA7912S			
C344	1-126-963-11	ELECT	4. 7uF	20%	50V	10923	8-759-231-53	IC	TA7805S			
C346	1-164-159-11		0. 1uF	-014	50V	10020	0 .00 001 00	- 0	, 0000			
C347	1-136-173-00		0. 47uF	5%	50V			< JAC	K 5			
C351	1-164-159-11		0. 1uF	24	50V			1 3/10	n z			
				970		1101	1 FRE DEC 11	LLCV	DIM 4D	/DUANA /TI	DOM: N	
C352	1-104-666-11	ELECT	220uF	20%	10V	J101	1-565-258-11					As in a
0050	1 100 150 00	DILL	0 000 Y	0.51		J102	1-565-320-61					
C353	1-136-159-00		0.033uF	5%	50V	J103	1-565-320-61					APE IN)
C354	1-130-473-00		0.0015uF	5%	50V	J104	1-565-258-11					
C355	1-136-159-00		0.033uF	5%	50V	J105	1-565-258-11	JACK,	PIN 4P	(VIDEO 1)	)	
C356	1-124-903-11	ELECT	luF	20%	50V							
C357	1-104-666-11	ELECT	220uF	20%	101	J106	1-750-595-11	JACK,	PIN 4P	(OUT)		
C358	1-164-159-11	CERAMIC	0. luF		50V			< 001	L >			
C391	1-126-963-11		4. 7uF	20%	50V							
C392	1-126-963-11		4. 7uF	20%	50V	1.301	1-410-509-11	INDIK	TOR	10uH		
C394	1-126-963-11		4. 7uF	20%	50V	L302	1-410-509-11			10uH		
C398	1-136-165-00		0. luF	5%	50V	LOGE	1 410 000 11	111000	101	100.1		
0000	1 100 100 00	1 1 1 1 1	OI LUL	UN	201			C TRA	NSISTOR	>		
C929	1-124-910-11	FIRCT	47uF	20%	50V			11101	HOTOTOR	,		
	1-124-910-11		47uF	20%	50V	0202	9 720 140 00	TDANC	TOTAL	000774 9	4	
		ELECT	4705	20%	201		8-729-140-96	LIKANS	1210K	2SD774-3	4	
C934-9		E' DOE	150 D	CON	170 -	Q304-3		TO AND	* Omon	00000000	7.17	
0000	1-126-941-11		470uF	20%	16V		8-729-141-30			2SC3623A		
C938	1-136-165-00	F.I L.M	0. luF	5%	50V	Q308	8-729-900-63	TRANS	ISTOR	DTA124ES		
		< CONNECTOR >						< RES	ISTOR >			
* CNE28	1-564-506-11	PLUG, CONNECTOR	3P			R101	1-249-411-11	CARBO	N	330	5%	1/4₩
		CONNECTOR, FFC (L		17P		R102-1		0.1,1110	, ,	000	4174	2, 211
		PIN, CONNECTOR				11100 +	1-249-417-11	CARRO	N	1 K	5%	1/4₩
		PIN. CONNECTOR				P106	1-249-421-11			2. 2K		1/4W
		PIN, CONNECTOR					1-249-429-11			10K	5%	1/4%
(NAT 0.17)	1 100 100 11	ing connector	(IC DUMIN)	21		R108-1		Chimo	L1	1011	Ú.M	1/40
* CNS11	1-691-746-11	CONNECTOR, BOAR	D TO BOARD !	5P		11100 1	1-249-417-11	CARBO	N	1 K	5%	1/4₩
		A DIGGE S			-	DITE	1 040 445 11	0411110		1000	r 0.	1 (45)
		< DIODE >				R115	1-249-441-11			100%	5%	1/4%
500-	C 810 001 00	DAGE NEW OLD				R116	1-249-441-11			100X		1/4%
	8-719-001-30					R117	1-249-416-11			820	5%	1/4W
D815	8-719-985-41	DIODE HZS2CLL				R118	1-247-897-11			560K	5%	1/4W
		< TERMINAL BOAR	D: S			R119	1-249-437-11	CARBO	N	47K	5%	1/4W
		· ILIUMINAL BUAR	U /			R120	1-249-441-11	CARRO	N	100K	5%	1/4W
E31	1.597.770.91	TERMINAL BOARD,	CROLIND			R121	1-249-409-11					
. 501	1-001-110-21	I DUMITHAL DUMAN,	CROOM							220	5%	1/4W
		< 1C >				R122	1-249-409-11			220	5%	1/4W
		< 1€ Z				R128	1-249-425-11			4.7X		1/4₩
10101	0 750 304 00	IA MINOACOT D				R130	1-249-437-11	CARBO	[A	47K	5%	1/4%
10101	8-159-184-02	IC NJM2068L-D										

## MAIN PANEI

Ref. No.	Part No.	Description			Remark	Ref, No.	Part No.	Descripti	on	Re	mark
R131	1-249-437-11	CARBON	47K	5%	1/4₩	*	A-4378-427-A	PANEL BOA	RD, COMPLETE		
R142	1-249-417-11		1K	5%	1/4%				******		
R151	1-249-411-11		330	5%	1/4₩			*****	******		
R152-1		CAINDON	330	3/9	1/47			< CAPACIT	OR >		
	1-249-417-11	CARBON	1K	5%	1/4₩						
R156	1-249-421-11	CARBON	2. 2K	5%	1/4W	C402	1-164-159-11	CERAMIC	0. 1uF		50V
						C403	1-126-963-11		4. 7uF	20%	50V
R157	1 249 429 - 11	CARRON	10K	5%	1/4W	C404	1-104-664-11		47uF	20%	16V
R158-1		CHILDON	1011	079	47.711	C405	1-102-963-00		33PF		
1100 1	1-249-417-11	CARRON	1.75	EW	1 / Am					5%	50V
DIRE			1K	5%	1/4₩	C406	1-126-963-11	ELECT	4. 7uF	20%	50V
R165	1-249-441-11		100K		1/4W	0.10-					
R166	1-249-441-11		100K		1/4\	C407	1-130-481-00		0. 0068uF	5%	50¥
R167	1-249-416-11	CARBON	820	5%	1/4₩	C408	1-136-163-00		0. 068uF	5%	50V
						C409	1-130-477-00	MYLAR	0. 0033uF	5%	50V
R168	1-247-897-11	CARBON	560K	5%	1/4W	C410	1-136-159-00		0. 033uF	5%	50V
R169	1-249-437-11	CARBON	47K	5%	1/4₩	C452	1-164-159-11		0. 1uF	0.4	50V
R170	1-249-441-11		100K		1/4₩			-	V. 144		501
R171	1-249-409-11		220	5%	1/4W	C453	1-126-963-11	RIFCT	4. 7uF	20%	507
.R172	1-249-409-11		220	5%	1/4₩	C454	1-104-664-11		47uF		
-16412	1 545 405 11	Childon	247	O.M	1/48					20%	16V
D100	1 040 400 11	ALDRAN	100	500	4 ( 4 ( 4 )	C455	1-102-963-00		33PF	5%	50V
R180	1-249-437-11		47K	5%	1/4W	C456	1-126-963-11		4. 7uF	20%	50V
R181	1-249-437-11		47K	5%	1/4W	C457	1-130-481-00	MYLAR	0. 0068uF	5%	50V
R307	1-249-417-11	CARBON	1K	5%	1/4\						
R308	1-249-431-11	CARBON	15K	5%	1/4%	C458	1-136-163-00	FILM	0. 068uF	5%	50V
R309	1-249-407-11	CARBON	150	5%	1/4\	C459	1-130-477-00	MYLAR	0. 0033uF	5%	50V
						C460	1-136-159-00		0. 033uF	5%	50V
R310	1-249-436-11	CARBON	39K	5%	1/4W	C803	1-164-159-11		0. luF	074	50V
R311	1-249-436-11		39K	5%	1/4W	C804	1-124-916-11		22uF	20%	63V
R312	1-247-903-00		1M	5%	1/4W	Coot	1 164 510 11	DDECI	PPOIL.	200	034
R313	1-249-441-11					COOF	1 100 004 01	CEDANIC	0.001.0	7 (0.0)	
R314			100X	5%	1/4W	C805	1-162-294-31		0. 001uF	10%	50V
11314	1-249-429-11	CARBUN	10K	5%	1/4₩	C806	1-164-159-11		0. 1uF		50V
						C807	1-124-465-00		0. 47uF	20%	50V
R315	1-249-433-11		22K	5%	1/4W	C808	1-104-905-11		LE LAYERS	0. 23	2F
R316	1-249-417-11		1 K	5%	1/4₩	C811	1-126-963-11	ELECT	4. 7uP	20%	507
R317	1-249-425-11	CARBON	4.7K	5%	1/4₩						
R318	1-249-417-11	CARBON	1K	5%	1/4₩	C911	1-124-907-11	ELECT	10uF	20%	507
R319	1-249-425-11	CARBON	4.7K	5%	1/4W						
D200	1-249-437-11	CUPDON	457.05	Enc	4 7 430			< CONNECT	OR >		
R320			47K	5%	1/4W						
R321	1-249-441-11		100K	5%	1/4W				FFC (LIF(NON-ZIF))		
R363	1-249-441-11		100K	5%	1/4W	CNFA82	1-764-920-11	CONNECTOR.	FFC (LIF(NON-ZIF))	15P	
R364	1-249-429-11		10K	5%	1/4W	* CNS34	1-561-652-00	SOCKET, CO	ONNECTOR 12P		
R365	1-249-429-11	CARBON	10K	5%	1/47						
pacc	1 940 417 11	CADDON	127	E IN	1 (40)			< DIODE >			
R366	1-249-417-11		1K	5%	1/4₩						
R367	1-249-425-11		4.7K		1/4W		8-719-914-11	DIODE H	Z4ALL		
R368	1-249-417-11		1K	5%	1/4₩	D802-8	09				
R369	1-249-425-11	CARBON	4.7K	5%	1/4₩	i	8-719-987-63	DIODE 1	N4148M		
R371	1-249-437-11	CARBON	47K	5%	1/4₩	D812	8-719-987-63	DIODE 11	N4148M		
						D813	8-719-987-63	DIODE II	N4148M		
AR923	1-212-962-00	FUSIBLE	15	5%	1/2W F	D814	8-719-313-48		EL6210S-THI2 (STSNE	1RV)	
<b></b> AR924	1-217-489-00		47	5%	1W F		8-719-000-54			DI	
AR927	1-212-962-00		15	5%	1/2W F	2011	0 110 000 34	DIODE DA	ALL OTTO		
TT A D.	- 110 002 00	- OVI DELD	10	U/II	I) DIE F			< INDICATO	AP TUBE S		
		< VIBRATOR >						\ INDICATE	AL TUDE /		
		TARREST VIII				F1 801	1-517-440-11	INDICATOR	TUBE. FLUORESCENT		
X301	1-579-952-21	VIBRATOR, CERA	MTC (SM	Hz)		11001	1 11-044-110 1	INDICATOR	TODE, TEHNREMENT		
		**********			*****						

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## PANEL PS

R	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Re	mark
			< IC >				R835-8	346 1-249-441-11	CARRON	100K 5%	1/4₩	
	TOJOS	8-759-634-51	TC ME010AT	}			R847-8		CARLENII	TOOK 3W	1/50	
							ло41-с	1-249-425-11	CADDOM	4 7W FW	1/4₩	
		8-759-343-05		.2-\$0X2168			5051			4. 7K 5%		
	IC802	8-749-923-11	IC GP1U58X	(B				1-249-433-11		22K 5%	1/4W	
							R852	1-249-433-11	CARBON	22K 5%	1/4₩	
			< TRANSISTOR	>								
									< VARIABLE RESI	STOR >		
	Q801	8-729-900-63		DTA124ES							(	
	Q802	8-729-900-36		DTC124ES					RES, VAR, CARBO			
	Q805	8-729-900-63		DTA124ES					RES, VAR, CARBO			
	Q806	8-729-900-63		DTA124ES			RV404	1-238-156-11	RES, VAR, CARBO	N 250K/250K	(BALAN	CE)
	Q807	8-729-900-36	TRANSISTOR	DTC124ES								
									< SWITCH >			
	Q808	8-729-900-36	TRANSISTOR	DTC124ES								
							\$802		SWITCH, TACTILE			
			< RESISTOR >	·			\$803	1-554-303-21	SWITCH, TACTILE	(AUDIO SEL	ECTOR)	
							\$804	1-554-303-21	SWITCH, TACTILE	(SURROUND	MODE)	
	R401	1-247-887-00	CARBON	220K	5%	1/4₩	\$805	1-554-303-21	SWITCH, TACTILE	(CENTER MC	DE)	
	R402	1-249-430-11	CARBON	12K	5%	1/4₩	S806		SWITCH, TACTILE			
	R403	1-247-887-00	CARBON	220K	5%	1/4₩						
	R404	1-249-434-11	4	27K	5%	1/4₩	S807	1-554-303-21	SWITCH, TACTILE	(STEREO/MO	ONO)	
	R405	1-249-422-11		2. 7K		1/4₩	0001	1 001 000 01		Caranto, Ma		
	10100	1 010 100 11	CHILDON	2. 111	0,0	2, 4"			< VIBRATOR >			
	R407	1-249-426-11	CARRON	5. 6K	58	1/4\			· FIRMINI VIII ·			
	R408	1-249-414-11		560	5%	1/4%	X801	1-567-775-11	VIBRATOR, CERAM	IC (A DOMEIS	-1	
	R451	1-247-887-00		220K		1/4%			************			****
	R452	1-249-430-11		12K	5%	1/49	****	******	************	And dealers and dealers		*****
	R453	1-247-887-00		220K		1/4W	*	A 4079 446 A	PS BOARD, COMPL	ETE		
	1400	1-24/-00/-00	CARDON	ZZUN	3/6	1/4#	*	N-4310-447-M	**********			
	R454	1 940 494 11	CARRON	27K	F 0/	1/4₩			**********	***		
		1-249-434-11			5%				< CADICITOD >			
	R455	1-249-422-11		2. 7K		1/4W			< CAPACITOR >			
	R457	1-249-426-11		5. 6K		1/4W	0010	1 100 100 00	man a	0.000 0	E 6	E-041
	R458	1-249-414-11	CARBON	560	5%	1/4W	C012	1-136-163-00		0. 068uF	5%	50V
	R803-8						C013	1-136-163-00		0.068uF	5%	50V
		1-249-433-11	CARBON	22K	5%	1/4W	C512	1-136-163-00		0.068uF	5%	50V
			0.10.1		m a.:	# 4 t #T	C513	1-136-163-00		0. 068uF	5%	50V
	R809	1-249-425-11		4, 7K		1/4W	C562	1-136-163-00	FILM	0.068uF	5%	50V
	R811	1-249-433-11		22K	5%	1/4₩						
	R812	1-249-433-11		22K	5%	1/4₩	C563	1-136-163-00		0.068uF	5%	50V
	R814	1-249-425-11	CARBON	4. 7K	5%	1/47	C921	1-106-220-00		0. 1uF	5%	100A
	R815-8	318					C922	1-111-263-11		$10000 \mathrm{uF}$	20%	56V
		1-249-433-11	CARBON	22K	5%	1/4W	C923	1-111-263-11	ELECT	10000uF	20%	56V
							C924	1-124-910-11	ELECT	47uF	20%	50V
	R820	1-249-433-11	CARBON	22K	5%	1/4W						
	R822	1-249-433-11	CARBON	22K	5%	1/4W	C925	1-124-910-11	ELECT	47uF	20%	50Y
	R823	1-249-441-11		100K	5%	1/4W	C926	1-106-220-00		0. luF	5%	100V
	R824-8		4			-, -,	C927	1-126-413-11	ELECT	3300uF	20%	35V
		1-249-433-11	CARBON	22K	5%	1/4W	C928	1-126-413-11		3300uF	20%	35V
	R827	1-249-429-11		10K	5%	1/4W	C933	1-126-941-11		470uF	20%	16Y
	11,710	100 11		AMEX	W/W		1				- 4.4	
	R828	1-249-433-11	CARRON	22K	5%	1/4W	C971	1-106-220-00	MYLAR	0. 1uF	5%	100V
	R829	1-249-431-11		15K	5%	1/4W	C972	1-124-920-11		330uF	20%	63V
	R830	1-249-411-11		330	5%	1/4W	C973	1-124-920-11		330uF	20%	63Y
	R831	1-249-429-11		10K	5%	1/4₩	C976	1-106-220-00		0. luF	5%	1007
	R833	1-249-413-11		470	5%	1/4\	6510	1 100 250 00	N 4 12/111	U: IUI	6170	1001
	RDSS	1-549-419-11	CAMDON	410	3.40	1/47						
	R834	1-247-807-31	CARRON	100	5%	1/4W						
	NOUF	001 01		444	A. In	4/ 4"						

PS	PW.	SW	SP.	SW

						L				
Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			R532	1-247-749-11	CARBON	560	5%	1/2W
					R533	1-249-437-11		47K	5%	1/4W
* CNP11	1-691-670-11	CONNECTOR, BOARI	TO BOARD 5P		R535	1-249-433-11		22K	5%	1/4W
* CNP51-		COMMENTAL DOLLA	o to boile of		R536	1-249-419-11		1. 5K		1/4W
4 0111 01		PIN, CONNECTOR (	ŝp.		R538	1-249-431-11		1. 5K	5%	1/4W
CNDEE		PIN, CONNECTOR :			K330	1-249-451-11	CARDON	151	376	1/4#
		PIN, CONNECTOR			DEGA	1 047 707 11	CADDON	10	ro/	1 /040
			4		R580	1-247-727-11		10	5%	1/2W
CNP/2	1-695-087-11	PIN, CONNECTOR	(PC BOARD) IP		R581	1-247-727-11		10	5%	1/2W
0117000		DIN GOLLINGSON	(ma maine) en		R582	1-247-749-11		560	5%	1/2W
		PIN, CONNECTOR			R583	1-249-437-11		47K	5%	1/4₩
		PIN, CONNECTOR			R584	1-249-431-11	CARBON	15K	5%	1/4₩
		PIN, CONNECTOR								
* CNV924	1-564-242-00	PIN, CONNECTOR S	5P		R585	1-249-433-11	CARBON	22K	5%	1/4₩
					R586	1-249-419-11	CARBON	1.5K	5%	1/4W
		< DIODE >			R611	1-249-437-11	CARBON	47K	5%	1/4W
					R661	1-249-437-11	CARBON	47K	5%	1/4W
D712	8-719-987-63	DIODE 1N4148M			R704	1-249-417-11	CARBON	1K	5%	1/4W
D717	8-719-987-63	DIODE 1N4148M								
D722	8-719-987-63	DIODE 1N4148M			R713	1-247-743-11	CARBON	220	5%	1/2W
D727	8-719-987-63	DIODE 1N4148M			R723	1-247-743-11	CARBON	220	5%	1/2W
D920	8-719-302-38	DIODE RBV-602-	-01		R922	1-249-425-11	CARBON	4.7K	5%	1/4W
					<b></b> AR925	1-247-688-11	CARBON	10	5%	1/4W F
D921	8-719-200-82	DIODE 11ES2			<b></b> ↑R928	1-249-455-11		4.7	5%	1/4W F
D922	8-719-934-15	DIODE HZS24-31	L		20					-1 -1 -
D923	8-719-200-02	DIODE 10E2			AR975	1-247-688-11	CARBON	10	5%	1/4W F
D924	8-719-200-02				711.0		Olin Coli	10	614	27 200 2
D925	8-719-025-03		-SL				< RELAY >			
		11011	-							
D927	8-719-200-82	DIODE 11ES2			RY001	1-515-920-11	RELAY (24V)			
	8-719-200-82					1-515-920-11				
		1100				1-515-614-11				
		< TERMINAL BOARD	) >			1-515-920-11				
		Tarina agricu					**********	*****	****	********
E91	1-537-770-21	TERMINAL BOARD,	GROUND					*****		*****
E92		TERMINAL BOARD,			*	1-657-058-11	PW SW BOARD			
202	1 001 110 21	IDMITTALD DOMED,	ONOOND		*	1 001 000 11	********			
		< COIL >					*********			
		1 0010 7					< CONNECTOR >			
* L001	1-420-872-00	COIL, AIR-CORE					· COMPLETON /			
		COIL, AIR-CORE			* CND89	1-564-336-00	PIN, CONNECTOR	9P		
		COIL, AIR-CORE			+ Chbos	1 301 330 00	TIN, COMBETON	41		
* 1001	1 450 015 00	COLD, AIR CORD					< SWITCH >			
		< TRANSISTOR >		-			V DWITCH >			
		· IIIIIIIIIII			A \$901	1-579-967-51	SWITCH, PUSH (A	C POWE	P) (1	VEV) (DOWED)
Q921	8-729-141-03	TRANSISTOR 25	A733-OP				***********			
Mari	0-125-141-05	INALCIONALI	4133-di		******	*****	*****	*****	****	********
		< RESISTOR >			*	1-657-055-11	CD CW DOLDD			
		A REGISTOR /			T	1-001-000-11	********			
R030	1-247-727-11	CAPRON	10 5% 1	/2W			***			
R031	1-247-727-11			/2W			< CONNECTOR >			
R033	1-249-437-11						/ COMMECTOR /			
				./4W	CMPOI	1 564 505 11	DI UC CONNECTOR	on		
R034	1-249-421-11			./4W	CNESI	1-564-505-11	PLUG, CONNECTOR	ZP		
R035	1-249-433-11	CAIRDUN	22K 5% 1	./4W			/ CELTYCII \			
phác	1_940_400 11	CYDDON	990 EW 1	/49			< SWITCH >			
R036	1-249-409-11			./4W	0051	1 570 700 11	OWITCH DUOL (1	WDW)	(Opp.	VPB)
R037	1-249-421-11			./4W			SWITCH, PUSH (1			
R530	1-247-727-11			./2\\\	******	*******	*********	*****	****	*********
R531	1-247-727-11	CARDON	10 5% 1	./2₩						

# SPC SPF VF VIDEO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Rem	ark
*	1-657-067-11	SPC BOARD ********		C205-2	07 1-124-907-11	PI PCT	10uF	20%	50V
		< CONNECTOR >		C210	1-124-903-11 1-104-664-11	ELECT ELECT	luF 47uF	20% 20%	50V 16V
	1-770-481-11 1-561-205-11	PIN, CONNECTOR 4P SOCKET 10P			1-104-664-11 1-124-907-11		47uF 10uF	20% 20%	16V 50V
		< TERMINAL >		C253	1-136-153-00 1-124-903-11	ELECT	0.01uF 1uF	5% 20%	50V 50V
		TERMINAL BOARD, PUSH 2P (CENT TERMINAL BOARD (REAR SPEAKER		C255	1-136-165-00 1-124-907-11 1-136-153-00	ELECT	0. 1uF 10uF 0. 01uF	5% 20% 5%	50V 50V 50V
		********							
*	1-657-068-11	SPF BOARD *******		C258 C259	1-124-903-11 1-136-165-00 1-124-903-11	FILM ELECT	1uF 0. 1uF 1uF	20% 5% 20%	50V 50V 50V
		< CONNECTOR >		C260	1-136-165-00	FILM	0. 1uF	5%	50V
		· Commoron	7	C291-2	93				
CNS56	1-770-569-11	SOCKET 4P			1-164-159-11	CERAMIC	0. 1uF		50V
		< TERMINAL >				< CONNECTOR >	-		
		TERMINAL BOARD (FRONT SPEAKI				PLUG (MICRO CON PIN, CONNECTOR		1P	
*	1-657-054-11	VF BOARD ******				< DIODE >			
		< CAPACITOR >		D290	8-719-987-63	DIODE 1N4148M			
C209	1-164-159-11	CERAMIC 0. 1uF	50V			< IC >			
0200	1 101 100 11	< CONNECTOR >		IC251	8-759-061-95	IC SN761200 IC SN761200			
		PLUG (MICRO CONNECTOR) 5P PLUG, CONNECTOR 3P		1C252	8-759-061-95	IC SN761200 < JACK >			
		A THOU S		1001	1 505 051 01	TACH DIN OD (E)	DANTEDO OAT	000 0 0	r im \
		< JACK >				JACK, PIN 3P (LI JACK, PIN 2P (V			
J151	1-537-115-31	TERMINAL BOARD (VIDEO 4 INPUT	Γ)			JACK, PIN 2P (V. CONNECTOR (ROUN)		NITOR)	
		< RESISTOR >					O IN/VIDEO 1	S VIDE	O OUT)
R123	1-249-417-11		1/4W	0 202	1 101 010 11	(VIDEO 1 S VIDE		S VIDE	O OUT)
R173 R221	1-249-417-11 1-249-403-11		1/4W 1/4W	J290	1-566-740-11	JACK (CONTROL S	)		
R283 R284	1-249-403-11 1-249-403-11		1/4W   1/4W			< COIL >			
		**********							
*	A-4378-428-A	VIDEO BOARD, COMPLETE *********		L201 L202	1-410-521-11 1-410-521-11		100uН 100uН		
		< CAPACITOR >				< TRANSISTOR >			
C201-2	04 1-124-903-11		20% 50V	Q201 Q202 Q203	8-729-620-05 8-729-119-76 8-729-620-05	TRANSISTOR 2S	C2603-EF A1175-HFE C2603-EF		
				,					







Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Re	emark
Q204	8-729-119-76	TRANSISTOR	2SA1175-	LIDD		DOZE	1 040 400 11	CIPPON			
Q205	8-729-620-05		2SC2603-				1-249-403-11		68 5%	1/4W	
Q206	8-729-119-76						1-249-421-11		2. 2K 5%	1/4W	
Q207			2SA1175-			******	********	*******	*******	*****	****
-	8-729-900-89		DTC144ES								
Q251	8-729-620-05	TRANSISTOR	2SC2603-	EF		*	1-657-052-11	VOL BOARD			
								******			
Q252	8-729-119-76		2SA1175-	HFE							
Q253	8-729-119-76	TRANSISTOR	2SA1175-	HFE				< CAPACITOR >			
Q254	8-729-620-05	TRANSISTOR	2SC2603-	EF							
Q255	8-729-119-76	TRANSISTOR	2SA1175-	HFE		C348	1-126-963-11	ELECT	4. 7uF	20%	50V
Q256	8-729-119-76	TRANSISTOR	2SA1175-	HFE		C638	1-136-153-00		0. 01uF	5%	50V
						0000	1 100 100 00	T T Deti	o. orur	370	307
Q290	8-729-900-80	TRANSISTOR	DTC114ES					< CONNECTOR >			
Q291	8-729-900-61		DTA114ES					Commercial			
-			D 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			CMESS	1 601 771 11	DULIC (NI CDO CON	unaman) an		
		< RESISTOR >				CNESS	1-091-111-11	PLUG (MICRO CON	NECTOR) 9P		
		/ MEDIDION /				CNEGI	1-564-505-11	PLUG, CONNECTOR	ZP		
R201-2	ne							PIN, CONNECTOR			
11201-2		CADDON	0.0	E.D.	* 4 m	CNS32	1-695-093-11	SOCKET, CONNECTO	DR 9P		
D007	1-249-403-11		68	5%	1/4W						
	1-249-426-11		5. 6K	5%	1/4W			< TERMINAL BOARD	) >		
	1-249-419-11		1.5K	5%	1/4₩						
R209	1-249-430-11		12K	5%	1/4W	E61	1-537-770-21	TERMINAL BOARD,	GROUND		
R210	1-249-403-11	CARBON	68	5%	1/4W						
								< IC >			
R211	1-249-403-11	CARBON	68	5%	1/4W						
R212	1-249-426-11	CARBON	5. 6K	5%	1/4W	IC306	8-759-634-51	IC M5218AP			
R213	1-249-419-11	CARBON	1. 5K	5%	1/4W		8-759-820-62				
R214	1-249-430-11	CARBON	12K	5%	1/4W	10001	0 100 020 02	TO LDTGGG			
	1-249-403-11		68	5%	1/4W			< RESISTOR >			
			***	0.10	-7 -10			( MESISION /			
R216	1-249-403-11	CARBON	68	5%	1/4W	R341	1-249-429-11	CADDON	10V FW	1 / / 10	
R217	1-249-426-11		5. 6K	5%	1/4W		1-249-431-11		10K 5%	1/4W	
	1-249-419-11		1. 5K	5%	1/4W				15K 5%	1/4W	
	1-249-430-11		12 K	5%			1-249-425-11		4. 7K 5%	1/4W	
	1-249-409-11		220		1/4W		1-249-429-11		10K 5%	1/4W	
11220	1-245-405-11	CARDUN	220	5%	1/4W	R649	1-249-413-11	CARBON	470 5%	1/4W	
R252	1-249-403-11	CADDON	CO	F6/	2.7.00						
R254	1-249-429-11	CARDON	68	5%	1/4₩			< VARIABLE RESIS	STOR >		
			10K	5%	1/4₩						
	1-249-403-11		68	5%	1/4₩	RV401	1-241-563-11	RES, VAR, CARBON	100KX4 (M	MASTER VO	DLUME)
	1-249-403-11		68	5%	1/4₩	******	*********	**********	*******	******	****
R257	1-249-426-11	CARBON	5. 6K	5%	1/4W						
DOCO	1 040 110 11	Cippou				*	1-657-057-11	VS BOARD (E)			
	1-249-419-11		1.5K		1/4W			*****			
R259	1-249-430-11	CARBON	12K	5%	1/4W						
	1-249-413-11	CARBON	470	5%	1/4₩			< CONNECTOR >			
	1-247-807-31	CARBON	100	5%	1/4₩						
R264-26	7					* CNV913	1-564-321-21	PIN, CONNECTOR 2	P (E)		
	1-249-403-11	CARBON	68	5%	1/4W	CNV914	1-564-321-00	PIN, CONNECTOR 2	P (E)		
								PIN. CONNECTOR 4			
R268	1-249-426-11	CARBON	5. 6K	5%	1/4W	0111020	1 000 100 11	rin, commercial a	1 (E)		
	1-249-419-11		1. 5K		1/4₩			< SWITCH >			
	1-249-430-11			5%	1/4W			/ SMITCU >			
	1-249-403-11		68	5%		A 00	1 551 405 **	OBIAOU Source	10105		
	1-249-429-11				1/4W	<b>∆</b> S9	1-5/1-437-11	SWITCH, POWER VO			
No L	1 549-453-11 (	CHROON	10K	5%	1/4W				(VOLTAGE		
Dogo	1 240 419 11	CARRON	480	E0/	2 (10)	*******	********	*******	******	******	****
	1-249-413-11 (			5%	1/4₩						
	1-247-807-31			5%	1/4W						
R275	1-249-403-11	CARBON	68	5%	1/4W						

Ref. No.	Part No.	Description	Remark							
		MISCELLANEOUS **********								
14 * 51 ACNJ902	1-773-623-11 1-533-213-31 1-526-794-11	WIRE (FLAT TYPE) (17 COR WIRE (FLAT TYPE) (15 COR HOLDER, FUSE OUTLET, AC (AEP, G, SP, CH) CORD, POWER (E)	E) E)							
ACNP1 AF1 AF2	1-696-586-11 1-532-286-00 1-532-286-00	CORD, POWER (AEP, G, SP, CH CORD, POWER (UK) FUSE (T2.5AL/250V) FUSE (T2.5AL/250V) (AEP, FUSE (T2.5AL/250V) (E)								
₩11	1-532-299-00	FUSE (T5AL/250V) FUSE (T5AL/250V) TRANSFORMER, POWER (AEP, TRANSFORMER, POWER (E)	UK, G, SP, CH)							
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ACCESSORIES & PACKING MATERIALS ************************************										
	3-681-190-01 3-798-902-11 3-798-902-21	COMMANDER, STANDARD (RM- SHEET (LARGE), PROTECTION MANUAL, INSTRUCTION (ENG SPANISH/PORTU MANUAL, INSTRUCTION (GEF DUTCH/SWEDISH/I MANUAL, INSTRUCTION (ENG	N LISH/FRENCH/ GUESE) (AEP,UK) MAN/DUTCH/ TALIAN) (AEP,G)							
			NESE) (E, SP, CH)							
	4-933-001-01	COVER (6), BATTERY (FOR CUSHION INDIVIDUAL CARTON								
**************************************										
**************************************										
#1 #2 #3 #4	7-685-646-81 7-685-647-79	SCREW         +BVTP         3×8         TYPE2           SCREW         +BVTP         3×8         TYPE2           SCREW         +BVTP         3×10         TYPE2           SCREW         +BVTT         4×6         (S)								

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